



**Australian Government**

# **MEM40119 Certificate IV in Engineering**

# MEM40119 Certificate IV in Engineering

## Modification History

Release	Comments
3	Elective units updated. Points updated for MEM27003 Overhaul engine fuel system components. MEM05065 Maintain weld records added to Group B electives.
2	Packaging rules amended. Elective unit codes updated. Supersedes and is equivalent to MEM40119 Certificate IV in Engineering (Release 1).
1	This qualification was first released in MEM Manufacturing and Engineering Release 2.0.

## Qualification Description

This qualification defines the skills and knowledge required for a higher engineering tradesperson within metal, engineering, manufacturing and associated industries.

The skills associated with this qualification are intended to apply to a wide range of engineering work undertaken in the fields of refrigeration and air conditioning, casting and moulding, computer numerically controlled (CNC) programming, fluid power, heavy fabrication, instrumentation, maintenance, plant mechanics, marine electronics, mechatronics, patternmaking, robotics, toolmaking, welding and watch and clock services and repair, including post-trade work.

It provides the skills and knowledge for a person to understand and implement quality control techniques, exercise good interpersonal and communications skills, work from complex instructions and procedures, exercise discretion within the scope of responsibility, perform work under limited supervision either individually or in a team environment, be responsible for assuring the quality of their own work, provide trade guidance and assistance as part of a work team, perform non-trade tasks which are incidental or peripheral to the primary tasks and facilitate the completion of the whole task, inspect products and/or materials for conformity with established operational standards, operate lifting equipment incidental to their work and assists in the provision of training in conjunction with supervisors and trainers.

This qualification may be accessed by direct entry. While there is no qualification entry requirement, it is assumed that the learner is either already a tradesperson with access to structured on and off-the-job training or is an apprentice under an Australian Apprenticeship arrangement. It should not be used as a pre-employment or pre-apprenticeship program. It is specifically designed to cover the skills and knowledge required of workers employed as Engineering/Manufacturing Tradesperson – Special Class Level II as defined in the Manufacturing and Associated Industries and Occupations Award.

The following additional descriptors are approved for use with this qualification:

- Casting and Moulding
- CNC Programming
- Fluid Power
- Boilermaking
- Instrumentation
- Maintenance
- Fixed and Mobile Plant Mechanic
- Mechatronics
- Patternmaking
- Refrigeration and Air Conditioning
- Marine Craft Construction
- Robotics
- Sheet Metal
- Toolmaking
- Watch and Clock Service and Repair
- Welding

No other descriptor can be used.

In some jurisdictions units in this qualification may require a license. Licensing information is included in the relevant units of competence.

## Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

## Entry Requirements

There are no entry requirements for this qualification.

## Packaging Rules

To be awarded the MEM40119 Certificate IV in Engineering units of competency to a value of 132 points must be achieved, chosen as outlined below:

- core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 12 points from Group A
- elective units of competency to a maximum value of 87 points from Group B to bring the total value to 132 points.

Appropriate Group B elective units to the value of 14 points may be chosen from this Training Package, other endorsed Training Packages and accredited courses where those units are available for inclusion in Certificate III and Certificate IV qualifications. Only select units that would be suitable for occupational outcomes in a higher engineering trade environment.

Registered Training Organisations (RTOs) must seek a determination from the industry parties in respect of the allocations of point values for units of competency drawn from other Training Packages or accredited courses. Determination of points requests are to be submitted to the industry parties through Manufacturing Industry Skills Alliance. Refer to the MEM Companion Volume Implementation Guide for information on determination of unit point values.

The minimum requirements for this qualification can also be met by holders of one of the following qualifications or equivalent with the completion of additional units of competency drawn from Specialisation units Group A to a minimum value of 12 points and Specialisation units from Group B to bring the total value of additional units to at least 36 points (note that additional units are those units not included in the Certificate III qualification already held):

- MEM30219 Certificate III in Engineering – Mechanical Trade
- MEM30619 Certificate III in Jewellery Manufacture
- MEM30719 Certificate III in Marine Craft Construction
- MEM30819 Certificate III in Locksmithing
- MEM30919 Certificate III in Boating Services
- MEM31019 Certificate III in Watch and Clock Service and Repair
- MEM31119 Certificate III in Engineering – Composites Trade
- MEM31219 Certificate III in Engineering – Industrial Electrician
- MEM31322 Certificate III in Refrigeration and Air Conditioning
- MEM31419 Certificate III in Engineering – Fixed and Mobile Plant Mechanic
- MEM31519 Certificate III in Engineering – Toolmaking Trade\*
- MEM31719 Certificate III in Engineering – Casting and Moulding Trade
- MEM31925 Certificate III in Engineering – Fabrication Trade

Note: The holder of the MEM31519 Certificate III in Engineering – Toolmaking Trade qualification is only required to complete additional units of competency drawn from Group A to a minimum value of 12 points and Specialisation units drawn from Group B to bring the total value of additional points to 24 points.

### Prerequisites

Points associated with prerequisites count towards the total. Units with prerequisite requirements are marked with an asterisk (refer to the individual units for details). All prerequisites are included in the units listed.

### CORE UNITS

Unit code	Unit title	Points	Prerequisites
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MEM09002	Interpret technical drawing	4	*
MEM11011	Undertake manual handling	2	*
MEM12023	Perform engineering measurements	5	*
MEM12024	Perform computations	3	*
MEM13015	Work safely and effectively in manufacturing and engineering	2	
MEM14006	Plan work activities	4	*
MEM16006	Organise and communicate information	2	*
MEM16008	Interact with computing technology	2	*
MEM17003	Assist in the provision of on-the-job training	2	*
MEM18001	Use hand tools	2	*
MEM18002	Use power tools/hand held operations	2	*
MSMENV272	Participate in environmentally sustainable work practices	3	

## ELECTIVE UNITS

### Group A

Unit code	Unit title	Points	Prerequisites
MEM04020	Supervise individual ferrous melting and casting operation	4	*
MEM04021	Supervise individual non-ferrous melting and casting operation	4	*
MEM04022	Examine appropriateness of methoding for mould design	4	*
MEM04023	Undertake prescribed tests on foundry-related materials	4	*
MEM05060	Perform welds to code standards using submerged arc welding process	8	*
MEM05061	Apply basic metallurgy principles to welding applications	8	*

MEM05062	Apply welding and welding related codes and standards	4	*
MEM05063	Write and proof robotic welding system programs	6	*
MEM05064	Establish and maintain a weld record management system	4	*
MEM05066	Develop and maintain welding procedures	6	*
MEM05067	Establish and maintain a welding procedure management system	6	*
MEM05068	Apply welding procedure specifications	4	*
MEM05069	Undertake advanced weld repair and maintenance	6	*
MEM05070	Write and proof programs for NC/CNC thermal cutting machines	6	*
MEM05076	Perform welding supervision	10	*
MEM05077	Perform welding inspection	10	*
MEM05078	Apply welding principles	4	*
MEM05079	Perform welds to code standards using flux core arc welding process	8	*
MEM05080	Perform welds to code standards using gas metal arc welding process	8	*
MEM05081	Perform welds to code standards using gas tungsten arc welding process	8	*
MEM05082	Perform pipe welds to code standards using manual metal arc welding process	8	*
MEM05083	Perform welds to code standards using manual metal arc welding process	8	*
MEM05086	Set and edit computer controlled thermal cutting machines	4	*
MEM05087	Write basic NC/CNC programs for thermal cutting machines	6	*
MEM05088	Perform welds to code standards using oxy fuel gas welding process	8	*

MEM07016	Set and edit computer controlled machines and processes	4	*
MEM07018	Write basic NC and CNC programs	4	*
MEM07019	Program NC and CNC machining centre	2	*
MEM07020	Program multiple spindle and multiple axis NC and CNC machining centre	2	*
MEM07022	Program CNC wire cut machines	2	*
MEM07023	Program and set up CNC manufacturing cell	6	*
MEM07039	Write programs for industrial robots	4	*
MEM09004	Perform electrical or electronic detail drafting	8	*
MEM09006	Perform advanced engineering detail drafting	4	*
MEM09007	Perform advanced mechanical detail drafting	4	*
MEM09008	Perform advanced structural detail drafting	4	*
MEM09009	Create 2-D drawings using computer-aided design system	8	*
MEM09010	Create 3-D models using computer-aided design system	4	*
MEM09023	Create 3-D code files using computer-aided manufacturing system	6	*
MEM10003	Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.	12	*
MEM10007	Modify control systems	6	*
MEM10008	Undertake commissioning procedures for plant and/or equipment	4	*
MEM12003	Perform precision mechanical measurement	2	*
MEM12004	Perform precision electrical/electronic measurement	4	*
MEM12005	Calibrate measuring equipment	6	*
MEM12025	Use graphical techniques and perform simple statistical computations	2	*

MEM12026	Perform advanced trade calculations in a manufacturing, engineering or related environment	4	*
MEM14001	Schedule material deliveries	8	*
MEM14002	Undertake basic process planning	8	*
MEM14003	Undertake production scheduling	8	*
MEM15007	Conduct product and/or process capability studies	6	*
MEM15008	Perform advanced statistical quality control	2	*
MEM15010	Perform laboratory procedures	8	*
MEM15011	Exercise external quality assurance	6	*
MEM15012	Maintain/supervise the application of quality procedures	4	*
MEM15015	Examine trading practices	5	*
MEM15016	Inspect pre-packed articles	8	*
MEM15017	Use and maintain reference standards	3	*
MEM15018	Investigate consumer complaints	6	*
MEM15019	Conduct a field inspection	12	*
MEM15020	Perform inspection of measuring instruments	12	*
MEM15021	Conduct audits of servicing licensees and public weighbridge licensees	4	*
MEM15022	Verify reference standards	8	*
MEM16001	Give formal presentations and take part in meetings	2	*
MEM16003	Provide advanced customer service	2	*
MEM16009	Research and analyse engineering information	2	*
MEM16010	Write reports	2	*
MEM16011	Communicate with individuals and small groups	2	*
MEM16012	Interpret technical specifications and manuals	4	*



MEM16013	Operate in a self-directed team	2	*
MEM16014	Report technical information	2	*
MEM17001	Assist in development and deliver training in the workplace	2	*
MEM17002	Conduct workplace assessment	2	*
MEM18010	Perform equipment condition monitoring and recording	4	*
MEM18011	Shut down and isolate machines/equipment	2	*
MEM18016	Analyse plant and equipment condition monitoring results	4	*
MEM18017	Modify mechanical systems and equipment	8	*
MEM18019	Maintain pneumatic systems	4	*
MEM18021	Maintain hydraulic systems	4	*
MEM18022	Maintain fluid power controls	8	*
MEM18023	Modify fluid power system operation	8	*
MEM18048	Fault find and repair/rectify basic electrical circuits	12	*
MEM18049	Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.	3	*
MEM18050	Disconnect/reconnect fixed wired equipment over 1000 volts a.c./1500 volts d.c.	3	*
MEM18051	Fault find and repair/rectify complex electrical circuits	6	*
MEM18053	Modify fluid power control systems	6	*
MEM18054	Fault find, test and calibrate instrumentation systems and equipment	8	*
MEM18056	Diagnose and repair analog equipment and components	10	*
MEM18058	Modify electronic equipment	4	*
MEM18059	Modify electronic systems	4	*

MEM18060	Maintain, repair control instrumentation - single and multiple loop control systems	8	*
MEM18061	Maintain/calibrate complex control systems	8	*
MEM18062	Install, maintain and calibrate instrumentation sensors, transmitters and final control elements	8	*
MEM18065	Diagnose and repair digital equipment and components	10	*
MEM18066	Diagnose and repair microprocessor-based equipment	6	*
MEM18067	Tune control loops - multi controller or multi element systems	6	*
MEM18069	Maintain, repair instrumentation process control analysers	6	*
MEM18070	Modify complex electrical circuits and systems	6	*
MEM18091	Maintain and repair multistage, cascade and/or ultra-cold industrial refrigeration systems	4	*
MEM18092	Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls	6	*
MEM18093	Maintain and repair integrated industrial refrigeration and/or large air handling system controls	8	*
MEM20018	Identify and program transponder keys	2	*
MEM20019	Service automotive transponder systems using diagnostic equipment	2	*
MEM20020	Use EEPROM programmers to service automotive transponder systems	2	*
MEM20029	Develop and implement a master key system	6	*
MEM20032	Service and repair fire and security containers	6	*
MEM20033	Service and repair mechanical automotive locking systems	4	*
MEM21018	Service clock escapements and oscillating systems	4	*

MEM21019	Service and repair clock striking mechanisms	4	*
MEM21020	Service and repair clock chiming mechanisms	6	*
MEM21021	Restore clockwork mechanisms	6	*
MEM21022	Manufacture watch and clock components	6	*
MEM21023	Plan, set up and operate horological workshop or service centre	4	*
MEM24012	Apply metallurgical principles	4	*
MEM24022	Undertake penetrant tests	4	*
MEM24024	Undertake magnetic particle tests	4	*
MEM24026	Undertake eddy current tests	6	*
MEM24028	Undertake ultrasonic tests	6	*
MEM24030	Undertake radiographic tests	6	*
MEM24031	Establish procedures for non-destructive tests	12	*
MEM25008	Repair marine vessel surfaces and structures	4	*
MEM25013	Produce three-dimensional plugs/moulds	12	*
MEM27018	Test, diagnose and rectify mobile and stationary plant external monitoring and control systems	4	*
MEM27024	Diagnose and rectify mobile plant hydrostatic systems	4	*
MEM27027	Install or modify mobile plant air conditioning systems	4	*
MEM48004	Interpret basic binary phase diagrams	4	

## Group B

Unit code	Unit title	Points	Prerequisites
CPPFES2027	Inspect, test and maintain non-gaseous pre-engineered fire-suppression systems	2	
CPPFES3042	Install and commission pre-engineered fire-suppression systems	2	

CPPSEC2021	Install security equipment and systems	4	
CPPSEC3036	Program and configure security equipment and systems	2	
CPPSEC3037	Test installed security equipment and systems	2	
CPPSEC3038	Commission and decommission security equipment and systems	2	
CPPSEC3039	Diagnose faults in electronic security equipment and systems	2	
CPPSEC3041	Conduct routine service of security equipment and systems	4	
CPPSEC3047	Provide estimate and quote on security system installations	4	
MEM03001	Perform manual production assembly	4	*
MEM03002	Perform precision assembly	4	*
MEM03003	Perform sheet and plate assembly	4	*
MEM03004	Perform electronic/electrical assembly (production)	8	*
MEM03005	Rework and repair (electrical/electronic production)	8	*
MEM03006	Set assembly stations	2	*
MEM04001	Operate melting furnaces	4	*
MEM04002	Perform gravity die casting	2	*
MEM04003	Operate pressure die casting machine	4	*
MEM04004	Prepare and mix sand for metal moulding	4	*
MEM04006	Operate sand moulding and core making machines	8	*
MEM04007	Pour molten metal	4	*
MEM04008	Fettle and trim metal castings/forgings	4	*

MEM04018	Perform general woodworking machine operations	4	*
MEM04019	Perform refractory installation and repair	4	*
MEM04024	Produce moulds and cores by hand	4	*
MEM04025	Produce moulds and cores by hand (advanced)	12	*
MEM04026	Develop and manufacture spur gear patterns	2	*
MEM04027	Develop and manufacture bevel gear patterns	2	*
MEM04028	Develop and manufacture chain gear and sprocket patterns	2	*
MEM04029	Develop and manufacture conveyor screw patterns	2	*
MEM04030	Develop and manufacture propeller patterns	2	*
MEM04031	Develop and manufacture flat back wood patterns	4	*
MEM04032	Develop and manufacture irregular joint wood patterns	3	*
MEM04033	Develop and manufacture turned wood patterns	3	*
MEM04034	Develop and manufacture wooden wheel patterns	4	*
MEM04035	Develop and manufacture pipe patterns	4	*
MEM04037	Develop and manufacture split patterns	2	*
MEM04038	Produce polymer patterns	8	*
MEM04039	Assemble plated patterns	8	*
MEM04040	Develop and manufacture polystyrene patterns	2	*
MEM04041	Develop and manufacture production patterns	8	*
MEM04042	Develop and manufacture vacuum forming moulds and associated equipment	6	*
MEM04043	Develop and manufacture precision models	6	*

MEM05001	Perform manual soldering/desoldering – electrical/electronic components	4	*
MEM05002	Perform high reliability soldering and desoldering	4	*
MEM05003	Perform soft soldering	2	*
MEM05004	Perform routine oxy fuel gas welding	2	*
MEM05005	Carry out mechanical cutting	2	*
MEM05006	Perform brazing and/or silver soldering	2	*
MEM05007	Perform manual heating and thermal cutting	2	*
MEM05009	Perform automated thermal cutting	2	*
MEM05010	Apply fabrication, forming and shaping techniques	8	*
MEM05012	Perform routine manual metal arc welding	2	*
MEM05013	Perform manual production welding	2	*
MEM05014	Monitor quality of production welding/fabrications	2	*
MEM05037	Perform geometric development	6	*
MEM05038	Perform advanced geometric development – cylindrical/rectangular	2	*
MEM05039	Perform advanced geometric development - conical	2	*
MEM05040	Perform advanced geometric development - transitions	4	*
MEM05049	Perform routine gas tungsten arc welding	2	*
MEM05050	Perform routine gas metal arc welding	2	*
MEM05052	Apply safe welding practices	4	*
MEM05056	Perform routine flux core arc welding	2	*
MEM05057	Perform routine submerged arc welding	2	*

MEM05065	Maintain weld records	4	*
MEM05071	Perform advanced manual thermal cutting, gouging and shaping	2	*
MEM05072	Perform advanced welding using manual metal arc welding process	4	*
MEM05073	Perform advanced welding using gas metal arc welding process	4	*
MEM05074	Perform advanced welding using gas tungsten arc welding process	4	*
MEM05075	Perform advanced welding using oxy acetylene welding process	4	*
MEM05084	Perform advanced welding using flux core arc welding process	4	*
MEM05085	Select welding processes	2	*
MEM05089	Assemble fabricated components	8	*
MEM05090	Weld using manual metal arc welding process	4	*
MEM05091	Weld using gas metal arc welding process	4	*
MEM05092	Weld using gas tungsten arc welding process	4	*
MEM05093	Weld using submerged arc welding process	4	*
MEM05094	Repair, replace and/or modify fabrications	4	*
MEM05095	Weld using flame powder spraying	4	*
MEM05096	Weld using flux core arc welding process	4	*
MEM05097	Weld using oxy fuel gas welding process	4	*
MEM06003	Carry out heat treatment	6	*
MEM06004	Select heat treatment processes and test finished product	6	*
MEM06007	Perform basic incidental heat/quenching, tempering and annealing	2	*
MEM06010	Perform hand forging	4	*

MEM06011	Perform power hammer forging	4	*
MEM06012	Perform drop and upset forging	4	*
MEM06013	Repair springs	4	*
MEM06014	Perform power hammer forging of complex shapes	4	*
MEM06015	Hand forge complex shapes	4	*
MEM06016	Perform press forging	4	*
MEM06017	Perform press forging of complex shapes	4	*
MEM07001	Perform operational maintenance of machines/equipment	2	*
MEM07002	Perform precision shaping/planing/slotting operations	4	*
MEM07003	Perform routine machine setting	4	*
MEM07004	Perform complex machine setting	8	*
MEM07005	Perform general machining	8	*
MEM07006	Perform lathe operations	4	*
MEM07007	Perform milling operations	4	*
MEM07008	Perform grinding operations	4	*
MEM07009	Perform precision jig boring operations	4	*
MEM07010	Perform tool and cutter grinding operations	4	*
MEM07011	Perform complex milling operations	4	*
MEM07012	Perform complex grinding operations	4	*
MEM07013	Perform machining operations using horizontal and vertical boring machines	4	*
MEM07014	Perform electro-discharge machining (EDM) operations	4	*
MEM07015	Set computer controlled machines and processes	2	*



MEM07021	Perform complex lathe operations	4	*
MEM07024	Operate and monitor machine and process	4	*
MEM07025	Perform advanced machine and process operation	6	*
MEM07026	Perform advanced plastic processing	6	*
MEM07027	Perform advanced press operations	6	*
MEM07028	Operate computer controlled machines and processes	2	*
MEM07029	Perform routine sharpening and maintenance of production tools and cutters	4	*
MEM07030	Perform basic metal spinning lathe operations	8	*
MEM07031	Perform complex metal spinning lathe operations	4	*
MEM07032	Use workshop machines for basic operations	2	*
MEM07033	Operate and monitor basic boiler	6	*
MEM07040	Set multistage integrated processes	6	*
MEM07041	Perform production machining	8	*
MEM08001	Perform wire, jig and barrel load/unload work	4	*
MEM08002	Pre-treat work for subsequent surface coating	4	*
MEM08003	Perform electroplating operations	6	*
MEM08004	Finish work using wet, dry and vapour deposition methods	4	*
MEM08005	Prepare and produce specialised coatings	4	*
MEM08006	Produce clear and/or coloured and/or sealed anodised films on aluminium	2	*
MEM08007	Control surface finish production and finished product quality	4	*
MEM08008	Operate and control surface finishing waste treatment process	3	*

MEM08009	Make up solutions	2	*
MEM08010	Manually finish/polish materials	6	*
MEM08011	Prepare surfaces using solvents and/or mechanical means	2	*
MEM08012	Prepare surfaces by abrasive blasting (basic)	4	*
MEM08013	Prepare surfaces by abrasive blasting (advanced)	4	*
MEM08014	Apply protective coatings (basic)	4	*
MEM08015	Apply protective coatings (advanced)	4	*
MEM08016	Control blast coating by-products, materials and emissions	1	*
MEM08018	Electroplate engineering coatings	6	*
MEM08019	Electroplate protective finishes	6	*
MEM08020	Electroplate decorative finishes	6	*
MEM09003	Prepare basic engineering drawing	8	*
MEM09005	Perform basic engineering detail drafting	8	*
MEM09011	Apply basic engineering design concepts	6	*
MEM09021	Interpret and produce drawings of curved 3-D shapes	4	*
MEM09022	Create 2-D code files using computer-aided manufacturing system	4	*
MEM10002	Terminate and connect electrical wiring	3	*
MEM10004	Enter and change programmable controller operational parameters	2	*
MEM10005	Commission programmable controller programs	4	*
MEM10006	Install machine/plant	4	*
MEM10009	Install refrigeration and air conditioning plant and equipment	4	*

MEM10010	Install pipework and pipework assemblies	4	*
MEM10011	Terminate and connect specialist cables	3	*
MEM10012	Erect structures	4	*
MEM10013	Install split air conditioning systems and associated pipework	6	*
MEM11001	Erect/dismantle scaffolding and equipment	4	*
MEM11002	Erect/dismantle intermediate scaffolding and equipment	4	*
MEM11003	Coordinate erection/dismantling of complex scaffolding/equipment	4	*
MEM11004	Undertake dogging	4	*
MEM11005	Pick and process order	4	*
MEM11006	Perform production packaging	2	*
MEM11007	Administer inventory procedures	4	*
MEM11008	Package materials (stores and warehouse)	2	*
MEM11009	Handle/move bulk fluids/gases	4	*
MEM11010	Operate mobile load shifting equipment	4	*
MEM11012	Purchase materials	6	*
MEM11013	Undertake warehouse receipt process	4	*
MEM11014	Undertake warehouse dispatch process	4	*
MEM11015	Manage warehouse inventory system	6	*
MEM11016	Order materials	2	*
MEM11017	Organise and lead stocktakes	4	*
MEM11018	Organise and maintain warehouse stock receipt and dispatch system	6	*
MEM11019	Undertake tool store procedures	4	*

MEM11020	Perform advanced warehouse computer operations	4	*
MEM11021	Perform advanced operation of load shifting equipment	2	*
MEM11022	Operate fixed/moveable load shifting equipment	4	*
MEM12001	Use comparison and basic measuring devices	2	*
MEM12002	Perform electrical/electronic measurement	2	*
MEM12006	Mark off/out (general engineering)	4	*
MEM12007	Mark off/out structural fabrications and shapes	4	*
MEM12019	Measure components using coordinate measuring machines	4	*
MEM12020	Set and operate coordinate measuring machines	2	*
MEM12021	Program coordinate measuring machines	4	*
MEM12022	Program coordinate measuring machines (advanced)	2	*
MEM13001	Perform emergency first aid	1	*
MEM13003	Work safely with industrial chemicals and materials	2	*
MEM13004	Work safely with molten metals/glass	2	*
MEM13006	Collect and evaluate work health and safety data for an enterprise or section of an enterprise	4	*
MEM13007	Maintain water treatment systems for cooling towers	2	*
MEM13018	Work safely with ionizing radiation	4	
MEM13019	Undertake work health and safety activities in the workplace	3	
MEM13020	Supervise work health and safety in an industrial work environment	4	*

MEM15001	Perform basic statistical quality control	2	*
MEM15003	Use improvement processes in team activities	4	*
MEM15004	Perform inspection	2	*
MEM15005	Select and control inspection processes and procedures	4	*
MEM16002	Conduct formal interviews and negotiations	4	*
MEM16004	Perform internal/external customer service	2	*
MEM16005	Operate as a team member to conduct manufacturing, engineering or related activities	2	*
MEM18003	Use tools for precision work	4	*
MEM18004	Maintain and overhaul mechanical equipment	4	*
MEM18005	Perform fault diagnosis, installation and removal of bearings	4	*
MEM18006	Perform precision fitting of engineering components	6	*
MEM18007	Maintain and repair mechanical drives and mechanical transmission assemblies	4	*
MEM18008	Balance equipment	2	*
MEM18009	Perform precision levelling and alignment of machines and engineering components	4	*
MEM18012	Perform installation and removal of mechanical seals	2	*
MEM18013	Perform gland packing	2	*
MEM18014	Manufacture press tools and gauges	8	*
MEM18015	Maintain tools and dies	4	*
MEM18018	Maintain pneumatic system components	4	*
MEM18020	Maintain hydraulic system components	4	*

MEM18045	Fault find and repair electrical equipment/components up to 250 volts single phase supply	4	*
MEM18046	Fault find and repair electrical equipment/components up to 1000 volts a.c./1500 volts d.c.	10	*
MEM18055	Dismantle, replace and assemble engineering components	3	*
MEM18057	Maintain/service analog/digital electronic equipment	6	*
MEM18063	Terminate signal and data cables	4	*
MEM18064	Maintain instrumentation system components	6	*
MEM18071	Connect and disconnect fluid conveying system components	2	*
MEM18072	Manufacture fluid conveying conductor assemblies	4	*
MEM18083	Handle fluorocarbon refrigerants according to regulations	1	*
MEM18084	Commission and decommission split air conditioning systems	4	*
MEM18085	Install, service and repair domestic air conditioning and refrigeration appliances	6	*
MEM18086	Test, recover, evacuate and charge refrigeration systems	4	*
MEM18087	Service and repair domestic and light commercial refrigeration and air conditioning equipment	6	*
MEM18088	Maintain and repair commercial air conditioning systems and components	4	*
MEM18089	Maintain and repair central air handling systems	6	*
MEM18090	Maintain and repair industrial refrigeration systems and components	6	*

MEM18094	Service and repair commercial refrigeration	6	*
MEM18095	Maintain and repair cooling towers/evaporative condensers and associated equipment	4	*
MEM18096	Maintain, repair/replace and adjust refrigerant flow controls and associated equipment	6	*
MEM18097	Manufacture cavity dies	8	*
MEM18098	Prepare to perform work associated with fuel system installation and servicing	2	*
MEM18110	Perform basic penetrant testing	2	*
MEM18111	Perform basic magnetic particle testing	2	*
MEM18112	Perform basic eddy current testing	2	*
MEM18113	Perform ultrasonic thickness testing	2	*
MEM18114	Perform basic radiographic testing	2	*
MEM19001	Perform jewellery metal casting	6	*
MEM19002	Prepare jewellery illustrations	4	*
MEM19003	Handle gem materials	2	*
MEM19004	Handle and examine gemstone materials	6	*
MEM19005	Produce three-dimensional precision items	8	*
MEM19006	Replace watch batteries	1	*
MEM19007	Perform gemstone setting	6	*
MEM19009	Perform investment procedures for lost wax casting process	1	*
MEM19010	Produce rubber moulds for lost wax casting process	2	*
MEM19011	Perform wax injection of moulds for lost wax casting process	2	*
MEM19012	Produce jewellery wax model	4	*

MEM19014	Perform hand engraving	4	*
MEM19015	Perform jewellery enamelling	4	*
MEM19016	Construct jewellery components	4	*
MEM19017	Fabricate jewellery items	6	*
MEM19020	Fault find and maintain micro-mechanisms	4	*
MEM19021	Diagnose and service micro-mechanisms	6	*
MEM20015	Produce hand cut keys	2	*
MEM20016	Produce keys by cutting to code	2	*
MEM20017	Produce keys by duplication	2	*
MEM20022	Modify and repair security equipment and systems	4	*
MEM20023	Assemble and test lock mechanisms	6	*
MEM20024	Install and upgrade locks and hardware	4	*
MEM20025	Gain entry	4	*
MEM20026	Install and maintain door control devices and systems	2	*
MEM20027	Maintain and service mechanical locking devices	6	*
MEM20028	Plan and prepare a master key system	4	*
MEM20030	Gain entry and reinstate fire and security containers	4	*
MEM20031	Gain entry and reinstate automotive locking systems	4	*
MEM20035	Perform a site security survey	2	*
MEM21001	Replace watch batteries, capacitors and bands	2	*
MEM21002	Perform watch movement exchange	2	*
MEM21003	Perform watch case servicing, repair and refurbishment	4	*



MEM21004	Clean watch and clock components	2	*
MEM21005	Diagnose faults in quartz watches	2	*
MEM21006	Service quartz watches	4	*
MEM21007	Service complex quartz watches	4	*
MEM21008	Service mechanical watches	4	*
MEM21009	Inspect, diagnose, adjust and repair mechanical watches	4	*
MEM21010	Service watch power generating systems	2	*
MEM21011	Service calendar and other dial indication mechanisms for watches	4	*
MEM21012	Service and repair mechanical watch oscillating systems	4	*
MEM21013	Service, test and adjust watch escapements	4	*
MEM21014	Service mechanical chronograph watches	6	*
MEM21015	Perform precision watch timing and adjustment	6	*
MEM21016	Install and set up clocks	2	*
MEM21017	Service and repair clock timepieces	6	*
MEM25001	Apply fibre-reinforced materials	2	*
MEM25002	Form and integrate fibre-reinforced structures	4	*
MEM25003	Set up marine vessel structures	4	*
MEM25004	Fair and shape surfaces	2	*
MEM25005	Construct and assemble marine vessel timber components	8	*
MEM25006	Undertake marine sheathing operations	2	*
MEM25007	Maintain marine vessel surfaces	4	*
MEM25009	Form timber shapes using hot processes	2	*

MEM25010	Perform fitout procedures	4	*
MEM25011	Install marine systems	8	*
MEM25012	Install and test operations of marine auxiliary systems	6	*
MEM25014	Perform marine slipping operations	2	*
MEM25015	Assemble and install equipment and accessories/ancillaries	2	*
MEM27001	Maintain and repair stationary and mobile plant engine cooling systems	2	*
MEM27002	Test and repair compression ignition systems	4	*
MEM27003	Overhaul engine fuel system components	8	*
MEM27004	Maintain and repair engine lubrication systems	2	*
MEM27005	Tune diesel engines	4	*
MEM27006	Diagnose and rectify batteries, low voltage sensors and circuits	8	*
MEM27007	Diagnose and rectify low voltage starting systems	2	*
MEM27008	Maintain induction, exhaust and emission control systems	4	*
MEM27009	Diagnose and rectify braking systems	6	*
MEM27010	Diagnose and rectify low voltage charging systems	2	*
MEM27011	Maintain track type undercarriage on mobile plant	4	*
MEM27012	Maintain mobile plant suspension systems	4	*
MEM27013	Maintain steering systems	4	*
MEM27014	Diagnose and rectify automatic transmissions	8	*
MEM27015	Diagnose and rectify drive line and final drives	4	*

MEM27016	Diagnose and maintain electronic controlling systems on mobile and stationary plant	4	*
MEM27017	Maintain, fault find and rectify hydraulic systems for mobile plant	4	*
MEM27019	Diagnose, repair and replace diesel engines in stationary and mobile plant	5	*
MEM27020	Apply knowledge of large combustion engine operations to service and maintenance tasks	2	*
MEM27021	Maintain, fault find and repair stationary plant gas turbine engines	6	*
MEM27022	Maintain, fault find and repair traction drive mechanics	4	*
MEM27023	Diagnose and rectify fieldbus circuits in mobile and stationary plant and equipment	4	*
MEM27026	Service and repair mobile plant air conditioning systems	4	*
MEM27029	Maintain wheels and tyres	2	*
MEM27030	Perform engine bottom-end overhaul	4	*
MEM27031	Perform engine top-end overhaul	8	*
MEM27032	Service combustion engines	2	*
MEM50002	Work safely on marine craft	1	*
MEM50003	Follow work procedures to maintain the marine environment	1	*
MEM50004	Maintain quality of environment by following marina codes	1	*
MEM50009	Safely operate a mechanically powered recreational boat	2	*
MSMENV472	Implement and monitor environmentally sustainable work practices	4	
PMBPROD391E	Produce composites using resin infusion	4	

PMBPROD394E	Produce composites using resin transfer moulding	4	
PMBPROD398E	Produce composites using prepregs	4	
TLILIC0003	Licence to operate a forklift truck	0	
TLILIC0024	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)	1	

## Pre-requisite Requirements

Unit of competency	Prerequisite requirement
MEM21015 Perform precision watch timing and adjustment	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM21012 Service and repair mechanical watch oscillating systems</p> <p>MEM21013 Service, test and adjust watch escapements</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05076 Perform welding supervision	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05066 Develop and maintain welding procedures</p> <p>MEM05065 Maintain weld records</p> <p>MEM05085 Select welding processes</p>

	<p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>
MEM07003 Perform routine machine setting	<p>MEM16006 Organise and communicate information</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM16014 Report technical information	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.	<p>MEM16006 Organise and communicate information</p>

	<p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM07028 Operate computer controlled machines and processes	<p>MEM16006 Organise and communicate information</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM08009 Make up solutions	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07033 Operate and monitor basic boiler	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM16005 Operate as a team member to conduct manufacturing, engineering or related activities	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	MEM11011 Undertake manual handling
MEM11016 Order materials	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM07025 Perform advanced machine and process operation	<p>MEM16006 Organise and communicate information</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04039 Assemble plated patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18054 Fault find, test and calibrate instrumentation systems and equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18064 Maintain instrumentation system components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27015 Diagnose and rectify drive line and final drives	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05095 Weld using flame powder spraying	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05004 Perform routine oxy fuel gas welding</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05039 Perform advanced geometric development - conical	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p>

	<p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05037 Perform geometric development</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18012 Perform installation and removal of mechanical seals	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM10010 Install pipework and pipework assemblies	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM14003 Undertake production scheduling	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM20024 Install and upgrade locks and hardware	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM19015 Perform jewellery enamelling	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM21010 Service watch power generating systems	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p>

	<p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05060 Perform welds to code standards using submerged arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05065 Maintain weld records</p> <p>MEM05059 Perform advanced welding using submerged arc welding</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05057 Perform routine submerged arc welding</p>

	<p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM05093 Weld using submerged arc welding process</p>
MEM08006 Produce clear and/or coloured and/or sealed anodised films on aluminium	<p>MEM16006 Organise and communicate information</p> <p>MEM08002 Pre-treat work for subsequent surface coating</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05006 Perform brazing and/or silver soldering	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18018 Maintain pneumatic system components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05079 Perform welds to code standards using flux core arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05065 Maintain weld records</p> <p>MEM05096 Weld using flux core arc welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM05056 Perform routine flux core arc welding</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05084 Perform advanced welding using flux core arc welding process</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM09002 Interpret technical drawing</p>
MEM18020 Maintain hydraulic system components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05073 Perform advanced welding using gas metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM05050 Perform routine gas metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05091 Weld using gas metal arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27020 Apply knowledge of large combustion engine operations to service and maintenance tasks	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM09002 Interpret technical drawing</p>
MEM08001 Perform wire, jig and barrel load/unload work	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05052 Apply safe welding practices	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM03004 Perform electronic/electrical assembly (production)	<p>MEM16006 Organise and communicate information</p>



	MEM13015 Work safely and effectively in manufacturing and engineering
MEM15018 Investigate consumer complaints	<p>MEM16006 Organise and communicate information</p> <p>MEM15004 Perform inspection</p> <p>MEM15016 Inspect pre-packed articles</p> <p>MEM15015 Examine trading practices</p> <p>MEM15005 Select and control inspection processes and procedures</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16004 Perform internal/external customer service</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM20020 Use EEPROM programmers to service automotive transponder systems	<p>MEM16006 Organise and communicate information</p> <p>MEM20018 Identify and program transponder keys</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p> <p>MEM20031 Gain entry and reinstate automotive locking systems</p> <p>MEM18001 Use hand tools</p> <p>MEM20019 Service automotive transponder systems using diagnostic equipment</p> <p>MEM20023 Assemble and test lock mechanisms</p>

	<p>MEM20025 Gain entry</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p>
MEM10003 Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.	<p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27022 Maintain, fault find and repair traction drive mechanics	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM27016 Diagnose and maintain electronic controlling systems on mobile and stationary plant</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p>

	MEM12023 Perform engineering measurements MEM09002 Interpret technical drawing
MEM14006 Plan work activities	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM03001 Perform manual production assembly	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM15007 Conduct product and/or process capability studies	MEM16006 Organise and communicate information MEM15001 Perform basic statistical quality control MEM12025 Use graphical techniques and perform simple statistical computations MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM15008 Perform advanced statistical quality control
MEM11020 Perform advanced warehouse computer operations	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering MEM16008 Interact with computing technology
MEM27002 Test and repair compression ignition systems	MEM16006 Organise and communicate information MEM18001 Use hand tools

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM15012 Maintain/supervise the application of quality procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM15001 Perform basic statistical quality control</p> <p>MEM12025 Use graphical techniques and perform simple statistical computations</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM27021 Maintain, fault find and repair stationary plant gas turbine engines	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05010 Apply fabrication, forming and shaping techniques	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05037 Perform geometric development</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM10013 Install split air conditioning systems and associated pipework	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM10012 Erect structures	<p>MEM16006 Organise and communicate information</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p>

	<p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05091 Weld using gas metal arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM06007 Perform basic incidental heat/quenching, tempering and annealing	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM25010 Perform fitout procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p>

	<p>MEM14006 Plan work activities</p> <p>MEM25005 Construct and assemble marine vessel timber components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21004 Clean watch and clock components	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM12023 Perform engineering measurements	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM16009 Research and analyse engineering information	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16012 Interpret technical specifications and manuals</p>
MEM18084 Commission and decommission split air conditioning systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27003 Overhaul engine fuel system components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM09022 Create 2-D code files using computer-aided manufacturing system	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p>



	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05094 Repair, replace and/or modify fabrications	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05096 Weld using flux core arc welding process</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM05005 Carry out mechanical cutting</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05089 Assemble fabricated components</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM05091 Weld using gas metal arc welding process</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM16004 Perform internal/external customer service	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM08014 Apply protective coatings (basic)	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18098 Prepare to perform work associated with fuel system installation and servicing	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM09002 Interpret technical drawing</p>
MEM27030 Perform engine bottom-end overhaul	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04007 Pour molten metal	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM05062 Apply welding and welding related codes and standards	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07015 Set computer controlled machines and processes	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04040 Develop and manufacture polystyrene patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM08016 Control blast coating by-products, materials and emissions	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18017 Modify mechanical systems and equipment	<p>MEM18011 Shut down and isolate machines/equipment</p> <p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18009 Perform precision levelling and alignment of machines and engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM18005 Perform fault diagnosis, installation and removal of bearings</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21011 Service calendar and other dial indication mechanisms for watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM21010 Service watch power generating systems</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04019 Perform refractory installation and repair	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM05063 Write and proof robotic welding system programs	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05017 Weld using gas metal arc welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM05050 Perform routine gas metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM05049 Perform routine gas tungsten arc welding</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18009 Perform precision levelling and alignment of machines and engineering components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM14002 Undertake basic process planning	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18095 Maintain and repair cooling towers/evaporative condensers and associated equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p>



	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM18088 Maintain and repair commercial air conditioning systems and components</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM18094 Service and repair commercial refrigeration</p>
MEM27001 Maintain and repair stationary and mobile plant engine cooling systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07027 Perform advanced press operations	<p>MEM16006 Organise and communicate information</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07021 Perform complex lathe operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM07006 Perform lathe operations</p>
MEM06004 Select heat treatment processes and test finished product	<p>MEM16006 Organise and communicate information</p> <p>MEM06003 Carry out heat treatment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18015 Maintain tools and dies	<p>MEM16006 Organise and communicate information</p>

	<p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM07008 Perform grinding operations</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM07007 Perform milling operations</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM07006 Perform lathe operations</p>
MEM07012 Perform complex grinding operations	<p>MEM16006 Organise and communicate information</p> <p>MEM07008 Perform grinding operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12003 Perform precision mechanical measurement</p>

	<p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25006 Undertake marine sheathing operations	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM25001 Apply fibre-reinforced materials</p> <p>MEM25004 Fair and shape surfaces</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27017 Maintain, fault find and rectify hydraulic systems for mobile plant	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM20030 Gain entry and reinstate fire and security containers	<p>MEM16006 Organise and communicate information</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM20025 Gain entry</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p> <p>MEM11011 Undertake manual handling</p>
MEM18086 Test, recover, evacuate and charge refrigeration systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	MEM09002 Interpret technical drawing
MEM11015 Manage warehouse inventory system	MEM16006 Organise and communicate information MEM11007 Administer inventory procedures MEM13015 Work safely and effectively in manufacturing and engineering
MEM03003 Perform sheet and plate assembly	MEM16006 Organise and communicate information MEM18002 Use power tools/hand held operations MEM18001 Use hand tools MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM06014 Perform power hammer forging of complex shapes	MEM16006 Organise and communicate information MEM06011 Perform power hammer forging MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM05083 Perform welds to code standards using manual metal arc welding process	MEM16006 Organise and communicate information MEM05007 Perform manual heating and thermal cutting MEM05090 Weld using manual metal arc welding process MEM14006 Plan work activities MEM05065 Maintain weld records MEM05052 Apply safe welding practices

	<p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05012 Perform routine manual metal arc welding</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05072 Perform advanced welding using manual metal arc welding process</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>
MEM06013 Repair springs	<p>MEM16006 Organise and communicate information</p> <p>MEM06003 Carry out heat treatment</p> <p>MEM06010 Perform hand forging</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

MEM18003 Use tools for precision work	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM50004 Maintain quality of environment by following marina codes	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM50003 Follow work procedures to maintain the marine environment</p>
MEM05037 Perform geometric development	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM09021 Interpret and produce drawings of curved 3-D shapes	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>



	MEM12023 Perform engineering measurements
MEM15022 Verify reference standards	<p>MEM16006 Organise and communicate information</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM12019 Measure components using coordinate measuring machines	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11003 Coordinate erection/dismantling of complex scaffolding/equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM11001 Erect/dismantle scaffolding and equipment</p> <p>MEM11002 Erect/dismantle intermediate scaffolding and equipment</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18021 Maintain hydraulic systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18020 Maintain hydraulic system components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM03002 Perform precision assembly	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM10004 Enter and change programmable controller operational parameters	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM09002 Interpret technical drawing</p>
MEM09002 Interpret technical drawing	<p>MEM16006 Organise and communicate information</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p>
MEM19010 Produce rubber moulds for lost wax casting process	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM20026 Install and maintain door control devices and systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27004 Maintain and repair engine lubrication systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>

MEM05074 Perform advanced welding using gas tungsten arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM05049 Perform routine gas tungsten arc welding</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04023 Undertake prescribed tests on foundry-related materials	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

MEM07016 Set and edit computer controlled machines and processes	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM07015 Set computer controlled machines and processes</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07011 Perform complex milling operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM07007 Perform milling operations</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	MEM09002 Interpret technical drawing
MEM04018 Perform general woodworking machine operations	MEM16006 Organise and communicate information MEM18001 Use hand tools MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling MEM12023 Perform engineering measurements
MEM04034 Develop and manufacture wooden wheel patterns	MEM16006 Organise and communicate information MEM04018 Perform general woodworking machine operations MEM14006 Plan work activities MEM12006 Mark off/out (general engineering) MEM18002 Use power tools/hand held operations MEM18001 Use hand tools MEM12024 Perform computations MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling MEM12023 Perform engineering measurements MEM09002 Interpret technical drawing
MEM21001 Replace watch batteries, capacitors and bands	MEM16006 Organise and communicate information

	MEM13015 Work safely and effectively in manufacturing and engineering
MEM05069 Undertake advanced weld repair and maintenance	<p>MEM16006 Organise and communicate information</p> <p>MEM05074 Perform advanced welding using gas tungsten arc welding process</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05073 Perform advanced welding using gas metal arc welding process</p> <p>MEM05084 Perform advanced welding using flux core arc welding process</p> <p>MEM05075 Perform advanced welding using oxy acetylene welding process</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05071 Perform advanced manual thermal cutting, gouging and shaping</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05072 Perform advanced welding using manual metal arc welding process</p>

	MEM09002 Interpret technical drawing
MEM05040 Perform advanced geometric development - transitions	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05037 Perform geometric development</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18011 Shut down and isolate machines/equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18087 Service and repair domestic and light commercial refrigeration and air conditioning equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM19012 Produce jewellery wax model	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p>
MEM25013 Produce three-dimensional plugs/moulds	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM25003 Set up marine vessel structures</p> <p>MEM11011 Undertake manual handling</p> <p>MEM25002 Form and integrate fibre-reinforced structures</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27014 Diagnose and rectify automatic transmissions	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18065 Diagnose and repair digital equipment and components	<p>MEM16006 Organise and communicate information</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM10002 Terminate and connect electrical wiring	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM11010 Operate mobile load shifting equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM16002 Conduct formal interviews and negotiations	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18022 Maintain fluid power controls	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18019 Maintain pneumatic systems</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM18021 Maintain hydraulic systems</p> <p>MEM09002 Interpret technical drawing</p>
MEM27031 Perform engine top-end overhaul	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21016 Install and set up clocks	<p>MEM16006 Organise and communicate information</p>

	MEM13015 Work safely and effectively in manufacturing and engineering
MEM18010 Perform equipment condition monitoring and recording	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27019 Diagnose, repair and replace diesel engines in stationary and mobile plant	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM13020 Supervise work health and safety in an industrial work environment	MEM13019 Undertake work health and safety activities in the workplace

MEM21002 Perform watch movement exchange	<p>MEM16006 Organise and communicate information</p> <p>MEM21001 Replace watch batteries, capacitors and bands</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM05066 Develop and maintain welding procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM05083 Perform welds to code standards using manual metal arc welding process</p> <p>MEM05082 Perform pipe welds to code standards using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05080 Perform welds to code standards using gas metal arc welding process</p> <p>MEM05060 Perform welds to code standards using submerged arc welding process</p> <p>MEM05085 Select welding processes</p> <p>MEM05079 Perform welds to code standards using flux core arc welding process</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM05081 Perform welds to code standards using gas tungsten arc welding process</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05088 Perform welds to code standards using oxy fuel gas welding process</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM05078 Apply welding principles</p>
MEM20033 Service and repair mechanical automotive locking systems	<p>MEM16006 Organise and communicate information</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p> <p>MEM20027 Maintain and service mechanical locking devices</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p> <p>MEM11011 Undertake manual handling</p>
MEM07007 Perform milling operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	MEM09002 Interpret technical drawing
MEM05087 Write basic NC/CNC programs for thermal cutting machines	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM18001 Use hand tools</p> <p>MEM05009 Perform automated thermal cutting</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05086 Set and edit computer controlled thermal cutting machines</p> <p>MEM05071 Perform advanced manual thermal cutting, gouging and shaping</p> <p>MEM16008 Interact with computing technology</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18005 Perform fault diagnosis, installation and removal of bearings	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05061 Apply basic metallurgy principles to welding applications	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM19007 Perform gemstone setting	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM19003 Handle gem materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM07020 Program multiple spindle and multiple axis NC and CNC machining centre	<p>MEM16006 Organise and communicate information</p>

	<p>MEM07016 Set and edit computer controlled machines and processes</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM07019 Program NC and CNC machining centre</p> <p>MEM07015 Set computer controlled machines and processes</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM07018 Write basic NC and CNC programs</p> <p>MEM09002 Interpret technical drawing</p>
MEM16011 Communicate with individuals and small groups	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM15020 Perform inspection of measuring instruments	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27024 Diagnose and rectify mobile plant hydrostatic systems	<p>MEM16006 Organise and communicate information</p> <p>MEM27017 Maintain, fault find and rectify hydraulic systems for mobile plant</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM50009 Safely operate a mechanically powered recreational boat	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM19011 Perform wax injection of moulds for lost wax casting process	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM15015 Examine trading practices	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

	MEM12023 Perform engineering measurements
MEM18014 Manufacture press tools and gauges	<p>MEM18015 Maintain tools and dies</p> <p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM07008 Perform grinding operations</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM07007 Perform milling operations</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM07006 Perform lathe operations</p>
MEM14001 Schedule material deliveries	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18070 Modify complex electrical circuits and systems	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM10003 Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.</p> <p>MEM18001 Use hand tools</p> <p>MEM18051 Fault find and repair/rectify complex electrical circuits</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	<p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM18048 Fault find and repair/rectify basic electrical circuits</p>
MEM05038 Perform advanced geometric development - cylindrical/rectangular	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05037 Perform geometric development</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM08015 Apply protective coatings (advanced)	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM08014 Apply protective coatings (basic)</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27012 Maintain mobile plant suspension systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM15011 Exercise external quality assurance	<p>MEM16006 Organise and communicate information</p> <p>MEM15004 Perform inspection</p> <p>MEM15005 Select and control inspection processes and procedures</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM11007 Administer inventory procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18067 Tune control loops - multi controller or multi element systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements</p> <p>MEM18054 Fault find, test and calibrate instrumentation systems and equipment</p> <p>MEM18064 Maintain instrumentation system components</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27016 Diagnose and maintain electronic controlling systems on mobile and stationary plant	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM27023 Diagnose and rectify fieldbus circuits in mobile and stationary plant and equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05090 Weld using manual metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p>



	<p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM05012 Perform routine manual metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18110 Perform basic penetrant testing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04025 Produce moulds and cores by hand (advanced)	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM04024 Produce moulds and cores by hand</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18083 Handle fluorocarbon refrigerants according to regulations	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18016 Analyse plant and equipment condition monitoring results	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12025 Use graphical techniques and perform simple statistical computations</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>

MEM18006 Perform precision fitting of engineering components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM12002 Perform electrical/electronic measurement	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18089 Maintain and repair central air handling systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p>

	<p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25009 Form timber shapes using hot processes	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	MEM09002 Interpret technical drawing
MEM19004 Handle and examine gemstone materials	MEM16006 Organise and communicate information MEM19003 Handle gem materials MEM13015 Work safely and effectively in manufacturing and engineering
MEM07023 Program and set up CNC manufacturing cell	MEM16006 Organise and communicate information MEM07016 Set and edit computer controlled machines and processes MEM14006 Plan work activities MEM07028 Operate computer controlled machines and processes MEM18001 Use hand tools MEM07020 Program multiple spindle and multiple axis NC and CNC machining centre MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM07005 Perform general machining MEM07019 Program NC and CNC machining centre MEM07015 Set computer controlled machines and processes MEM11011 Undertake manual handling MEM12023 Perform engineering measurements MEM07018 Write basic NC and CNC programs MEM09002 Interpret technical drawing

MEM08010 Manually finish/polish materials	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM24022 Undertake penetrant tests	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM04030 Develop and manufacture propeller patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>

MEM04001 Operate melting furnaces	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM15019 Conduct a field inspection	<p>MEM16006 Organise and communicate information</p> <p>MEM15004 Perform inspection</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM16002 Conduct formal interviews and negotiations</p> <p>MEM15016 Inspect pre-packed articles</p> <p>MEM15017 Use and maintain reference standards</p> <p>MEM15018 Investigate consumer complaints</p> <p>MEM15015 Examine trading practices</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM15005 Select and control inspection processes and procedures</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12005 Calibrate measuring equipment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM16004 Perform internal/external customer service</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM05077 Perform welding inspection	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05066 Develop and maintain welding procedures</p> <p>MEM05065 Maintain weld records</p> <p>MEM05085 Select welding processes</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>



MEM19021 Diagnose and service micro-mechanisms	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM19020 Fault find and maintain micro-mechanisms</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05070 Write and proof programs for NC/CNC thermal cutting machines	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM18001 Use hand tools</p> <p>MEM05087 Write basic NC/CNC programs for thermal cutting machines</p> <p>MEM05009 Perform automated thermal cutting</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05086 Set and edit computer controlled thermal cutting machines</p> <p>MEM05071 Perform advanced manual thermal cutting, gouging and shaping</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04024 Produce moulds and cores by hand	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM21013 Service, test and adjust watch escapements	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM21012 Service and repair mechanical watch oscillating systems</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05097 Weld using oxy fuel gas welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05004 Perform routine oxy fuel gas welding</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25002 Form and integrate fibre-reinforced structures	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18111 Perform basic magnetic particle testing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM08002 Pre-treat work for subsequent surface coating	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM24031 Establish procedures for non-destructive tests	<p>MEM30007 Select common engineering materials</p> <p>MEM24039 Apply materials technology principles to non-destructive tests</p> <p>MEM24030 Undertake radiographic tests</p> <p>MEM24024 Undertake magnetic particle tests</p> <p>MEM24026 Undertake eddy current tests</p> <p>MEM13018 Work safely with ionizing radiation</p> <p>MEM24028 Undertake ultrasonic tests</p> <p>MEM24022 Undertake penetrant tests</p>
MEM05064 Establish and maintain a weld record management system	<p>MEM16006 Organise and communicate information</p> <p>MEM05083 Perform welds to code standards using manual metal arc welding process</p> <p>MEM05082 Perform pipe welds to code standards using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05080 Perform welds to code standards using gas metal arc welding process</p> <p>MEM05060 Perform welds to code standards using submerged arc welding process</p> <p>MEM05085 Select welding processes</p> <p>MEM05079 Perform welds to code standards using flux core arc welding process</p>

	<p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM05081 Perform welds to code standards using gas tungsten arc welding process</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05088 Perform welds to code standards using oxy fuel gas welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05078 Apply welding principles</p>
MEM20035 Perform a site security survey	<p>MEM16006 Organise and communicate information</p> <p>MEM20027 Maintain and service mechanical locking devices</p> <p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM20025 Gain entry</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM05002 Perform high reliability soldering and desoldering	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p>
MEM27026 Service and repair mobile plant air conditioning systems	<p>MEM16006 Organise and communicate information</p>

	<p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM20022 Modify and repair security equipment and systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM08008 Operate and control surface finishing waste treatment process	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM20032 Service and repair fire and security containers	<p>MEM16006 Organise and communicate information</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p>

	<p>MEM20027 Maintain and service mechanical locking devices</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p> <p>MEM11011 Undertake manual handling</p>
MEM24030 Undertake radiographic tests	<p>MEM16006 Organise and communicate information</p> <p>MEM13018 Work safely with ionizing radiation</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM25007 Maintain marine vessel surfaces	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18085 Install, service and repair domestic air conditioning and refrigeration appliances	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM18050 Disconnect/reconnect fixed wired equipment over 1000 volts a.c./1500 volts d.c.	<p>MEM16006 Organise and communicate information</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM16001 Give formal presentations and take part in meetings	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM08018 Electroplate engineering coatings	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p>



	<p>MEM07001 Perform operational maintenance of machines/equipment</p> <p>MEM08003 Perform electroplating operations</p> <p>MEM08001 Perform wire, jig and barrel load/unload work</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18060 Maintain, repair control instrumentation - single and multiple loop control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements</p> <p>MEM18054 Fault find, test and calibrate instrumentation systems and equipment</p> <p>MEM18064 Maintain instrumentation system components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM27027 Install or modify mobile plant air conditioning systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27032 Service combustion engines	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07010 Perform tool and cutter grinding operations	<p>MEM16006 Organise and communicate information</p> <p>MEM07008 Perform grinding operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12003 Perform precision mechanical measurement</p>

	<p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05014 Monitor quality of production welding/fabrications	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05056 Perform routine flux core arc welding</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM05012 Perform routine manual metal arc welding</p> <p>MEM05050 Perform routine gas metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05004 Perform routine oxy fuel gas welding</p> <p>MEM11011 Undertake manual handling</p> <p>MEM05049 Perform routine gas tungsten arc welding</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM05057 Perform routine submerged arc welding</p> <p>MEM09002 Interpret technical drawing</p>
MEM27009 Diagnose and rectify braking systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM19014 Perform hand engraving	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM10008 Undertake commissioning procedures for plant and/or equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p>

	<p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18090 Maintain and repair industrial refrigeration systems and components</p> <p>MEM18009 Perform precision levelling and alignment of machines and engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM10006 Install machine/plant</p> <p>MEM18089 Maintain and repair central air handling systems</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18063 Terminate signal and data cables	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p>

	<p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18023 Modify fluid power system operation	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18022 Maintain fluid power controls</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18020 Maintain hydraulic system components</p> <p>MEM18018 Maintain pneumatic system components</p> <p>MEM18019 Maintain pneumatic systems</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	<p>MEM18021 Maintain hydraulic systems</p> <p>MEM09002 Interpret technical drawing</p>
MEM18061 Maintain/calibrate complex control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements</p> <p>MEM18060 Maintain, repair control instrumentation - single and multiple loop control systems</p> <p>MEM18054 Fault find, test and calibrate instrumentation systems and equipment</p> <p>MEM18067 Tune control loops - multi controller or multi element systems</p> <p>MEM18064 Maintain instrumentation system components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM18069 Maintain, repair instrumentation process control analysers</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM27011 Maintain track type undercarriage on mobile plant	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25012 Install and test operations of marine auxiliary systems	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04004 Prepare and mix sand for metal moulding	<p>MEM16006 Organise and communicate information</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM08003 Perform electroplating operations	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM07001 Perform operational maintenance of machines/equipment</p> <p>MEM08001 Perform wire, jig and barrel load/unload work</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM12005 Calibrate measuring equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM09010 Create 3-D models using computer-aided design system	<p>MEM16006 Organise and communicate information</p> <p>MEM09009 Create 2-D drawings using computer-aided design system</p> <p>MEM12024 Perform computations</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM08004 Finish work using wet, dry and vapour deposition methods	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM08002 Pre-treat work for subsequent surface coating</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM15008 Perform advanced statistical quality control	<p>MEM16006 Organise and communicate information</p> <p>MEM15001 Perform basic statistical quality control</p> <p>MEM12025 Use graphical techniques and perform simple statistical computations</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM12004 Perform precision electrical/electronic measurement	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

MEM05071 Perform advanced manual thermal cutting, gouging and shaping	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07019 Program NC and CNC machining centre	<p>MEM16006 Organise and communicate information</p> <p>MEM07016 Set and edit computer controlled machines and processes</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM07015 Set computer controlled machines and processes</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM07018 Write basic NC and CNC programs</p> <p>MEM09002 Interpret technical drawing</p>

MEM16008 Interact with computing technology	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM04022 Examine appropriateness of methoding for mould design	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM04025 Produce moulds and cores by hand (advanced)</p> <p>MSATCM304A Interpret basic binary phase diagrams</p> <p>MEM18001 Use hand tools</p> <p>MEM04024 Produce moulds and cores by hand</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07013 Perform machining operations using horizontal and vertical boring machines	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25015 Assemble and install equipment and accessories/ancillaries	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM09002 Interpret technical drawing</p>
MEM07002 Perform precision shaping/planing/slotting operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04029 Develop and manufacture conveyor screw patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p>

	<p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM09011 Apply basic engineering design concepts	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05081 Perform welds to code standards using gas tungsten arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05074 Perform advanced welding using gas tungsten arc welding process</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p>

	<p>MEM05065 Maintain weld records</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM05049 Perform routine gas tungsten arc welding</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>
MEM18066 Diagnose and repair microprocessor-based equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18065 Diagnose and repair digital equipment and components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM09008 Perform advanced structural detail drafting	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM06011 Perform power hammer forging	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27023 Diagnose and rectify fieldbus circuits in mobile and stationary plant and equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p>



	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM13007 Maintain water treatment systems for cooling towers	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18097 Manufacture cavity dies	<p>MEM18015 Maintain tools and dies</p> <p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM07008 Perform grinding operations</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM07007 Perform milling operations</p> <p>MEM12003 Perform precision mechanical measurement</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM07006 Perform lathe operations</p>
MEM08005 Prepare and produce specialised coatings	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM08002 Pre-treat work for subsequent surface coating</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05057 Perform routine submerged arc welding	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	MEM11011 Undertake manual handling
MEM10009 Install refrigeration and air conditioning plant and equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM10010 Install pipework and pipework assemblies</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18048 Fault find and repair/rectify basic electrical circuits	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM10003 Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM25008 Repair marine vessel surfaces and structures	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p> <p>MEM25007 Maintain marine vessel surfaces</p> <p>MEM14006 Plan work activities</p> <p>MEM25004 Fair and shape surfaces</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM11018 Organise and maintain warehouse stock receipt and dispatch system	<p>MEM16006 Organise and communicate information</p> <p>MEM11008 Package materials (stores and warehouse)</p> <p>MEM11013 Undertake warehouse receipt process</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11014 Undertake warehouse dispatch process</p> <p>MEM11011 Undertake manual handling</p>
MEM05013 Perform manual production welding	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27018 Test, diagnose and rectify mobile and stationary plant external monitoring and control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM27016 Diagnose and maintain electronic controlling systems on mobile and stationary plant</p> <p>MEM27023 Diagnose and rectify fieldbus circuits in mobile and stationary plant and equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18112 Perform basic eddy current testing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18092 Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18090 Maintain and repair industrial refrigeration systems and components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM18088 Maintain and repair commercial air conditioning systems and components</p> <p>MEM09002 Interpret technical drawing</p>
MEM20018 Identify and program transponder keys	<p>MEM16006 Organise and communicate information</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM05007 Perform manual heating and thermal cutting	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21017 Service and repair clock timepieces	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM27010 Diagnose and rectify low voltage charging systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18055 Dismantle, replace and assemble engineering components	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM15004 Perform inspection	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07008 Perform grinding operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p>



	<p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07031 Perform complex metal spinning lathe operations	<p>MEM16006 Organise and communicate information</p> <p>MEM07032 Use workshop machines for basic operations</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM07030 Perform basic metal spinning lathe operations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07004 Perform complex machine setting	<p>MEM07027 Perform advanced press operations</p> <p>MEM16006 Organise and communicate information</p> <p>MEM07008 Perform grinding operations</p>

	<p>MEM07026 Perform advanced plastic processing</p> <p>MEM14006 Plan work activities</p> <p>MEM07025 Perform advanced machine and process operation</p> <p>MEM07007 Perform milling operations</p> <p>MEM07041 Perform production machining</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM07013 Perform machining operations using horizontal and vertical boring machines</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM07006 Perform lathe operations</p>
MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18054 Fault find, test and calibrate instrumentation systems and equipment</p> <p>MEM18064 Maintain instrumentation system components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM09005 Perform basic engineering detail drafting	<p>MEM16006 Organise and communicate information</p> <p>MEM09003 Prepare basic engineering drawing</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM03005 Rework and repair (electrical/electronic production)	<p>MEM16006 Organise and communicate information</p> <p>MEM03004 Perform electronic/electrical assembly (production)</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	MEM05001 Perform manual soldering/desoldering - electrical/electronic components
MEM07039 Write programs for industrial robots	<p>MEM16006 Organise and communicate information</p> <p>MEM10004 Enter and change programmable controller operational parameters</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21003 Perform watch case servicing, repair and refurbishment	<p>MEM16006 Organise and communicate information</p> <p>MEM21001 Replace watch batteries, capacitors and bands</p> <p>MEM21002 Perform watch movement exchange</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM06003 Carry out heat treatment	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM19016 Construct jewellery components	<p>MEM16006 Organise and communicate information</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM08011 Prepare surfaces using solvents and/or mechanical means	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18072 Manufacture fluid conveying conductor assemblies	<p>MEM16006 Organise and communicate information</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07009 Perform precision jig boring operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM07007 Perform milling operations</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18001 Use hand tools</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM12007 Mark off/out structural fabrications and shapes	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07001 Perform operational maintenance of machines/equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM20017 Produce keys by duplication	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11002 Erect/dismantle intermediate scaffolding and equipment	<p>MEM16006 Organise and communicate information</p>

	<p>MEM11001 Erect/dismantle scaffolding and equipment</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM15016 Inspect pre-packed articles	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18091 Maintain and repair multistage, cascade and/or ultra-cold industrial refrigeration systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18087 Service and repair domestic and light commercial refrigeration and air conditioning equipment</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18090 Maintain and repair industrial refrigeration systems and components</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM18088 Maintain and repair commercial air conditioning systems and components</p> <p>MEM09002 Interpret technical drawing</p>
MEM15010 Perform laboratory procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04035 Develop and manufacture pipe patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM15021 Conduct audits of servicing licensees and public weighbridge licensees	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16004 Perform internal/external customer service</p> <p>MEM11011 Undertake manual handling</p> <p>MEM09002 Interpret technical drawing</p>
MEM12021 Program coordinate measuring machines	<p>MEM16006 Organise and communicate information</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21006 Service quartz watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21001 Replace watch batteries, capacitors and bands</p> <p>MEM21002 Perform watch movement exchange</p>

	<p>MEM21005 Diagnose faults in quartz watches</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11019 Undertake tool store procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM11007 Administer inventory procedures</p> <p>MEM12024 Perform computations</p> <p>MEM11013 Undertake warehouse receipt process</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM50002 Work safely on marine craft	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM05075 Perform advanced welding using oxy acetylene welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM05004 Perform routine oxy fuel gas welding</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05050 Perform routine gas metal arc welding	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM50003 Follow work procedures to maintain the marine environment	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM07005 Perform general machining	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04031 Develop and manufacture flat back wood patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p>

	<p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM09007 Perform advanced mechanical detail drafting	<p>MEM16006 Organise and communicate information</p> <p>MEM09005 Perform basic engineering detail drafting</p> <p>MEM09003 Prepare basic engineering drawing</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM09006 Perform advanced engineering detail drafting</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05049 Perform routine gas tungsten arc welding	<p>MEM16006 Organise and communicate information</p>

	MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM24028 Undertake ultrasonic tests	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM25014 Perform marine slipping operations	MEM16006 Organise and communicate information MEM18002 Use power tools/hand held operations MEM18001 Use hand tools MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM11022 Operate fixed/moveable load shifting equipment	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM21019 Service and repair clock striking mechanisms	MEM16006 Organise and communicate information MEM21017 Service and repair clock timepieces MEM13015 Work safely and effectively in manufacturing and engineering
MEM16012 Interpret technical specifications and manuals	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering

MEM19003 Handle gem materials	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM12001 Use comparison and basic measuring devices	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM12024 Perform computations	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM20015 Produce hand cut keys	MEM16006 Organise and communicate information MEM18001 Use hand tools MEM13015 Work safely and effectively in manufacturing and engineering
MEM09009 Create 2-D drawings using computer-aided design system	MEM16006 Organise and communicate information MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM16008 Interact with computing technology MEM12023 Perform engineering measurements MEM09002 Interpret technical drawing
MEM12025 Use graphical techniques and perform simple statistical computations	MEM16006 Organise and communicate information MEM12024 Perform computations

	MEM13015 Work safely and effectively in manufacturing and engineering
MEM21005 Diagnose faults in quartz watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21001 Replace watch batteries, capacitors and bands</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM12003 Perform precision mechanical measurement	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM06017 Perform press forging of complex shapes	<p>MEM16006 Organise and communicate information</p> <p>MEM06016 Perform press forging</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM08019 Electroplate protective finishes	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM07001 Perform operational maintenance of machines/equipment</p> <p>MEM08003 Perform electroplating operations</p> <p>MEM08001 Perform wire, jig and barrel load/unload work</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05084 Perform advanced welding using flux core arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05096 Weld using flux core arc welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM05056 Perform routine flux core arc welding</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27013 Maintain steering systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p>



	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18090 Maintain and repair industrial refrigeration systems and components	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM10010 Install pipework and pipework assemblies</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM13006 Collect and evaluate work health and safety data for an enterprise or section of an enterprise	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM10011 Terminate and connect specialist cables	<p>MEM16006 Organise and communicate information</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM09002 Interpret technical drawing</p>
MEM25001 Apply fibre-reinforced materials	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

MEM08020 Electroplate decorative finishes	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM07001 Perform operational maintenance of machines/equipment</p> <p>MEM08003 Perform electroplating operations</p> <p>MEM08001 Perform wire, jig and barrel load/unload work</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05082 Perform pipe welds to code standards using manual metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05065 Maintain weld records</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05012 Perform routine manual metal arc welding</p>

	<p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05072 Perform advanced welding using manual metal arc welding process</p> <p>MEM09002 Interpret technical drawing</p>
MEM04021 Supervise individual non-ferrous melting and casting operation	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM04004 Prepare and mix sand for metal moulding</p> <p>MEM04025 Produce moulds and cores by hand (advanced)</p> <p>MEM18001 Use hand tools</p> <p>MEM04007 Pour molten metal</p> <p>MEM04024 Produce moulds and cores by hand</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM04001 Operate melting furnaces</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM13004 Work safely with molten metals/glass</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04003 Operate pressure die casting machine	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM04043 Develop and manufacture precision models	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM14006 Plan work activities</p> <p>MEM04041 Develop and manufacture production patterns</p> <p>MEM04039 Assemble plated patterns</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM04038 Produce polymer patterns</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM04042 Develop and manufacture vacuum forming moulds and associated equipment</p> <p>MEM04040 Develop and manufacture polystyrene patterns</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM12006 Mark off/out (general engineering)	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM19005 Produce three-dimensional precision items	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM19009 Perform investment procedures for lost wax casting process	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04041 Develop and manufacture production patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM04039 Assemble plated patterns</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27005 Tune diesel engines	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM27002 Test and repair compression ignition systems</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM16010 Write reports	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p>



	MEM13015 Work safely and effectively in manufacturing and engineering
MEM20028 Plan and prepare a master key system	MEM16006 Organise and communicate information MEM20017 Produce keys by duplication MEM20016 Produce keys by cutting to code MEM18001 Use hand tools MEM20023 Assemble and test lock mechanisms MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM20015 Produce hand cut keys
MEM19002 Prepare jewellery illustrations	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM25004 Fair and shape surfaces	MEM16006 Organise and communicate information MEM13003 Work safely with industrial chemicals and materials MEM18002 Use power tools/hand held operations MEM18001 Use hand tools MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM18096 Maintain, repair/replace and adjust refrigerant flow controls and associated equipment	MEM16006 Organise and communicate information MEM18086 Test, recover, evacuate and charge refrigeration systems

	<p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM10010 Install pipework and pipework assemblies</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM07041 Perform production machining	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04027 Develop and manufacture bevel gear patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p>

	<p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21022 Manufacture watch and clock components	<p>MEM16006 Organise and communicate information</p> <p>MEM21017 Service and repair clock timepieces</p> <p>MEM14006 Plan work activities</p> <p>MEM21021 Restore clockwork mechanisms</p> <p>MEM21020 Service and repair clock chiming mechanisms</p> <p>MEM18001 Use hand tools</p> <p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM21019 Service and repair clock striking mechanisms</p>
MEM05096 Weld using flux core arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM05056 Perform routine flux core arc welding</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM11008 Package materials (stores and warehouse)	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM27029 Maintain wheels and tyres	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18064 Maintain instrumentation system components	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04008 Fettle and trim metal castings/forgings	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18069 Maintain, repair instrumentation process control analysers	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p>

	<p>MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements</p> <p>MEM18054 Fault find, test and calibrate instrumentation systems and equipment</p> <p>MEM18064 Maintain instrumentation system components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21014 Service mechanical chronograph watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM21010 Service watch power generating systems</p> <p>MEM21011 Service calendar and other dial indication mechanisms for watches</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM10006 Install machine/plant	<p>MEM16006 Organise and communicate information</p>

	<p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18009 Perform precision levelling and alignment of machines and engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05092 Weld using gas tungsten arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM05049 Perform routine gas tungsten arc welding</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM08013 Prepare surfaces by abrasive blasting (advanced)	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM08016 Control blast coating by-products, materials and emissions</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM08012 Prepare surfaces by abrasive blasting (basic)</p>
MEM05001 Perform manual soldering/desoldering - electrical/electronic components	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18094 Service and repair commercial refrigeration	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p>



	<p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18051 Fault find and repair/rectify complex electrical circuits	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM10003 Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM18048 Fault find and repair/rectify basic electrical circuits</p>
MEM05068 Apply welding procedure specifications	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05091 Weld using gas metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM05050 Perform routine gas metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21023 Plan, set up and operate horological workshop or service centre	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM09006 Perform advanced engineering detail drafting	<p>MEM16006 Organise and communicate information</p> <p>MEM09005 Perform basic engineering detail drafting</p> <p>MEM09003 Prepare basic engineering drawing</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM06015 Hand forge complex shapes	<p>MEM16006 Organise and communicate information</p> <p>MEM06010 Perform hand forging</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

MEM18088 Maintain and repair commercial air conditioning systems and components	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05003 Perform soft soldering	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM19006 Replace watch batteries	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>

MEM12022 Program coordinate measuring machines (advanced)	<p>MEM16006 Organise and communicate information</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21020 Service and repair clock chiming mechanisms	<p>MEM16006 Organise and communicate information</p> <p>MEM21017 Service and repair clock timepieces</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM21019 Service and repair clock striking mechanisms</p>
MEM07018 Write basic NC and CNC programs	<p>MEM16006 Organise and communicate information</p> <p>MEM07016 Set and edit computer controlled machines and processes</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM07015 Set computer controlled machines and processes</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM24012 Apply metallurgical principles	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM25003 Set up marine vessel structures	<p>MEM16006 Organise and communicate information</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM27008 Maintain induction, exhaust and emission control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM11009 Handle/move bulk fluids/gases	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM20027 Maintain and service mechanical locking devices	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18093 Maintain and repair integrated industrial refrigeration and/or large air handling system controls	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.</p> <p>MEM10002 Terminate and connect electrical wiring</p>

	<p>MEM18090 Maintain and repair industrial refrigeration systems and components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM18089 Maintain and repair central air handling systems</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18113 Perform ultrasonic thickness testing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM10005 Commission programmable controller programs	<p>MEM16006 Organise and communicate information</p> <p>MEM10004 Enter and change programmable controller operational parameters</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM09002 Interpret technical drawing</p>



MEM11014 Undertake warehouse dispatch process	<p>MEM16006 Organise and communicate information</p> <p>MEM11008 Package materials (stores and warehouse)</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM15005 Select and control inspection processes and procedures	<p>MEM16006 Organise and communicate information</p> <p>MEM15004 Perform inspection</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18004 Maintain and overhaul mechanical equipment	<p>MEM18011 Shut down and isolate machines/equipment</p> <p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18009 Perform precision levelling and alignment of machines and engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM18005 Perform fault diagnosis, installation and removal of bearings</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM20016 Produce keys by cutting to code	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11012 Purchase materials	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04037 Develop and manufacture split patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p>

	<p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21018 Service clock escapements and oscillating systems	<p>MEM16006 Organise and communicate information</p> <p>MEM21017 Service and repair clock timepieces</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM21012 Service and repair mechanical watch oscillating systems</p> <p>MEM21013 Service, test and adjust watch escapements</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM15017 Use and maintain reference standards	<p>MEM16006 Organise and communicate information</p> <p>MEM12003 Perform precision mechanical measurement</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM12005 Calibrate measuring equipment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p>
MEM11004 Undertake dogging	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07026 Perform advanced plastic processing	<p>MEM16006 Organise and communicate information</p> <p>MEM07024 Operate and monitor machine and process</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM21021 Restore clockwork mechanisms	<p>MEM16006 Organise and communicate information</p> <p>MEM21017 Service and repair clock timepieces</p> <p>MEM21020 Service and repair clock chiming mechanisms</p>

	<p>MEM18001 Use hand tools</p> <p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM21019 Service and repair clock striking mechanisms</p>
MEM19001 Perform jewellery metal casting	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM15001 Perform basic statistical quality control	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11001 Erect/dismantle scaffolding and equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p>

	<p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04038 Produce polymer patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM14006 Plan work activities</p> <p>MEM07032 Use workshop machines for basic operations</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>

	MEM12023 Perform engineering measurements MEM09002 Interpret technical drawing
MEM05085 Select welding processes	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM11006 Perform production packaging	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM20031 Gain entry and reinstate automotive locking systems	MEM16006 Organise and communicate information MEM20017 Produce keys by duplication MEM20016 Produce keys by cutting to code MEM20033 Service and repair mechanical automotive locking systems MEM18001 Use hand tools MEM20023 Assemble and test lock mechanisms MEM20025 Gain entry MEM13015 Work safely and effectively in manufacturing and engineering MEM20015 Produce hand cut keys
MEM18046 Fault find and repair electrical equipment/components up to 1000 volts a.c./1500 volts d.c.	MEM16006 Organise and communicate information MEM18055 Dismantle, replace and assemble engineering components MEM10002 Terminate and connect electrical wiring

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12002 Perform electrical/electronic measurement</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18019 Maintain pneumatic systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18018 Maintain pneumatic system components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>



MEM04002 Perform gravity die casting	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM13004 Work safely with molten metals/glass</p>
MEM05005 Carry out mechanical cutting	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM13001 Perform emergency first aid	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM10007 Modify control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18086 Test, recover, evacuate and charge refrigeration systems</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18062 Install, maintain and calibrate instrumentation sensors, transmitters and final control elements</p> <p>MEM18060 Maintain, repair control instrumentation - single and multiple loop control systems</p>

	MEM18092 Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls
	MEM18054 Fault find, test and calibrate instrumentation systems and equipment
	MEM14006 Plan work activities
	MEM18023 Modify fluid power system operation
	MEM18065 Diagnose and repair digital equipment and components
	MEM18022 Maintain fluid power controls
	MEM18067 Tune control loops - multi controller or multi element systems
	MEM18006 Perform precision fitting of engineering components
	MEM18020 Maintain hydraulic system components
	MEM18018 Maintain pneumatic system components
	MEM18064 Maintain instrumentation system components
	MEM18090 Maintain and repair industrial refrigeration systems and components
	MEM18057 Maintain/service analog/digital electronic equipment
	MEM12003 Perform precision mechanical measurement
	MEM18093 Maintain and repair integrated industrial refrigeration and/or large air handling system controls
	MEM18058 Modify electronic equipment
	MEM18019 Maintain pneumatic systems

	MEM18002 Use power tools/hand held operations
	MEM05002 Perform high reliability soldering and desoldering
	MEM18001 Use hand tools
	MEM18059 Modify electronic systems
	MEM16010 Write reports
	MEM12025 Use graphical techniques and perform simple statistical computations
	MEM18056 Diagnose and repair analog equipment and components
	MEM18089 Maintain and repair central air handling systems
	MEM12024 Perform computations
	MEM13015 Work safely and effectively in manufacturing and engineering
	MEM18003 Use tools for precision work
	MEM18053 Modify fluid power control systems
	MEM12002 Perform electrical/electronic measurement
	MEM05001 Perform manual soldering/desoldering - electrical/electronic components
	MEM11011 Undertake manual handling
	MEM12023 Perform engineering measurements
	MEM12004 Perform precision electrical/electronic measurement
	MEM18021 Maintain hydraulic systems

	<p>MEM18088 Maintain and repair commercial air conditioning systems and components</p> <p>MEM09002 Interpret technical drawing</p>
MEM04042 Develop and manufacture vacuum forming moulds and associated equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM04038 Produce polymer patterns</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM06012 Perform drop and upset forging	<p>MEM16006 Organise and communicate information</p> <p>MEM06011 Perform power hammer forging</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM06010 Perform hand forging	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07024 Operate and monitor machine and process	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM11017 Organise and lead stocktakes	<p>MEM16006 Organise and communicate information</p> <p>MEM11007 Administer inventory procedures</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM17003 Assist in the provision of on-the-job training	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM19020 Fault find and maintain micro-mechanisms	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05078 Apply welding principles	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p>
MEM05089 Assemble fabricated components	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM05005 Carry out mechanical cutting</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM05091 Weld using gas metal arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM11013 Undertake warehouse receipt process	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05004 Perform routine oxy fuel gas welding	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM25011 Install marine systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05012 Perform routine manual metal arc welding	<p>MEM16006 Organise and communicate information</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18008 Balance equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM11021 Perform advanced operation of load shifting equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM11010 Operate mobile load shifting equipment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM11011 Undertake manual handling	<p>MEM16006 Organise and communicate information</p>



	MEM13015 Work safely and effectively in manufacturing and engineering
MEM18002 Use power tools/hand held operations	MEM16006 Organise and communicate information  MEM13015 Work safely and effectively in manufacturing and engineering  MEM11011 Undertake manual handling
MEM07032 Use workshop machines for basic operations	MEM16006 Organise and communicate information  MEM18001 Use hand tools  MEM13015 Work safely and effectively in manufacturing and engineering  MEM11011 Undertake manual handling
MEM18045 Fault find and repair electrical equipment/components up to 250 volts single phase supply	MEM16006 Organise and communicate information  MEM18055 Dismantle, replace and assemble engineering components  MEM10002 Terminate and connect electrical wiring  MEM18002 Use power tools/hand held operations  MEM18001 Use hand tools  MEM13015 Work safely and effectively in manufacturing and engineering  MEM12002 Perform electrical/electronic measurement  MEM12023 Perform engineering measurements  MEM09002 Interpret technical drawing
MEM07006 Perform lathe operations	MEM16006 Organise and communicate information

	<p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05065 Maintain weld records	<p>MEM16006 Organise and communicate information</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05096 Weld using flux core arc welding process</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05092 Weld using gas tungsten arc welding process</p> <p>MEM05091 Weld using gas metal arc welding process</p>

	<p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p> <p>MEM05093 Weld using submerged arc welding process</p>
MEM04026 Develop and manufacture spur gear patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM19017 Fabricate jewellery items	<p>MEM16006 Organise and communicate information</p> <p>MEM05006 Perform brazing and/or silver soldering</p> <p>MEM18001 Use hand tools</p>

	<p>MEM06007 Perform basic incidental heat/quenching, tempering and annealing</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM18059 Modify electronic systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18065 Diagnose and repair digital equipment and components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18058 Modify electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM18056 Diagnose and repair analog equipment and components</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM18058 Modify electronic equipment	<p>MEM16006 Organise and communicate information</p>

	<p>MEM18065 Diagnose and repair digital equipment and components</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM18056 Diagnose and repair analog equipment and components</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM05086 Set and edit computer controlled thermal cutting machines	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM18001 Use hand tools</p> <p>MEM05009 Perform automated thermal cutting</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05071 Perform advanced manual thermal cutting, gouging and shaping</p> <p>MEM16008 Interact with computing technology</p> <p>MEM11011 Undertake manual handling</p>

	MEM12023 Perform engineering measurements
	MEM09002 Interpret technical drawing
MEM18053 Modify fluid power control systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM14006 Plan work activities</p> <p>MEM18023 Modify fluid power system operation</p> <p>MEM18022 Maintain fluid power controls</p> <p>MEM18006 Perform precision fitting of engineering components</p> <p>MEM18020 Maintain hydraulic system components</p> <p>MEM18018 Maintain pneumatic system components</p> <p>MEM18019 Maintain pneumatic systems</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM16010 Write reports</p> <p>MEM12025 Use graphical techniques and perform simple statistical computations</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM18003 Use tools for precision work</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM12023 Perform engineering measurements</p> <p>MEM18021 Maintain hydraulic systems</p> <p>MEM09002 Interpret technical drawing</p>
MEM24024 Undertake magnetic particle tests	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM11005 Pick and process order	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04020 Supervise individual ferrous melting and casting operation	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM04004 Prepare and mix sand for metal moulding</p> <p>MEM04025 Produce moulds and cores by hand (advanced)</p> <p>MEM18001 Use hand tools</p> <p>MEM04007 Pour molten metal</p> <p>MEM04024 Produce moulds and cores by hand</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM04001 Operate melting furnaces</p> <p>MEM11011 Undertake manual handling</p>

	<p>MEM13004 Work safely with molten metals/glass</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07014 Perform electro-discharge machining (EDM) operations	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM13003 Work safely with industrial chemicals and materials	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18013 Perform gland packing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>



MEM06016 Perform press forging	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM21009 Inspect, diagnose, adjust and repair mechanical watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM05056 Perform routine flux core arc welding	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM21008 Service mechanical watches	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM04028 Develop and manufacture chain gear and sprocket patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p>

	<p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07022 Program CNC wire cut machines	<p>MEM16006 Organise and communicate information</p> <p>MEM07016 Set and edit computer controlled machines and processes</p> <p>MEM14006 Plan work activities</p> <p>MEM07028 Operate computer controlled machines and processes</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM07005 Perform general machining</p> <p>MEM07015 Set computer controlled machines and processes</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>

	<p>MEM07018 Write basic NC and CNC programs</p> <p>MEM09002 Interpret technical drawing</p>
MEM07030 Perform basic metal spinning lathe operations	<p>MEM16006 Organise and communicate information</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM07040 Set multistage integrated processes	<p>MEM16006 Organise and communicate information</p> <p>MEM14006 Plan work activities</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM09004 Perform electrical or electronic detail drafting	<p>MEM16006 Organise and communicate information</p> <p>MEM09003 Prepare basic engineering drawing</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18001 Use hand tools	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM09003 Prepare basic engineering drawing	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05009 Perform automated thermal cutting	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM20029 Develop and implement a master key system	<p>MEM16006 Organise and communicate information</p> <p>MEM20017 Produce keys by duplication</p> <p>MEM20016 Produce keys by cutting to code</p>

	<p>MEM20028 Plan and prepare a master key system</p> <p>MEM18001 Use hand tools</p> <p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p>
MEM25005 Construct and assemble marine vessel timber components	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM12007 Mark off/out structural fabrications and shapes</p> <p>MEM14006 Plan work activities</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM18071 Connect and disconnect fluid conveying system components	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM15003 Use improvement processes in team activities	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM20023 Assemble and test lock mechanisms	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM16013 Operate in a self-directed team	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM17001 Assist in development and deliver training in the workplace	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM21007 Service complex quartz watches	<p>MEM16006 Organise and communicate information</p> <p>MEM21001 Replace watch batteries, capacitors and bands</p> <p>MEM21002 Perform watch movement exchange</p> <p>MEM21005 Diagnose faults in quartz watches</p> <p>MEM21006 Service quartz watches</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

MEM18057 Maintain/service analog/digital electronic equipment	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM05080 Perform welds to code standards using gas metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05065 Maintain weld records</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05073 Perform advanced welding using gas metal arc welding process</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM05050 Perform routine gas metal arc welding</p>

	<p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05091 Weld using gas metal arc welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>
MEM24026 Undertake eddy current tests	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM04033 Develop and manufacture turned wood patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p>



	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM05072 Perform advanced welding using manual metal arc welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM05090 Weld using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM05012 Perform routine manual metal arc welding</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM08007 Control surface finish production and finished product quality	<p>MEM16006 Organise and communicate information</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM17002 Conduct workplace assessment	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM12020 Set and operate coordinate measuring machines	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM03006 Set assembly stations	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM21012 Service and repair mechanical watch oscillating systems	<p>MEM16006 Organise and communicate information</p> <p>MEM21009 Inspect, diagnose, adjust and repair mechanical watches</p> <p>MEM21008 Service mechanical watches</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM18056 Diagnose and repair analog equipment and components	<p>MEM16006 Organise and communicate information</p> <p>MEM18057 Maintain/service analog/digital electronic equipment</p>

	<p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05001 Perform manual soldering/desoldering - electrical/electronic components</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12004 Perform precision electrical/electronic measurement</p> <p>MEM09002 Interpret technical drawing</p>
MEM05088 Perform welds to code standards using oxy fuel gas welding process	<p>MEM16006 Organise and communicate information</p> <p>MEM05007 Perform manual heating and thermal cutting</p> <p>MEM14006 Plan work activities</p> <p>MEM05065 Maintain weld records</p> <p>MEM05097 Weld using oxy fuel gas welding process</p> <p>MEM05052 Apply safe welding practices</p> <p>MEM05085 Select welding processes</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM18001 Use hand tools</p> <p>MEM05075 Perform advanced welding using oxy acetylene welding process</p> <p>MEM05068 Apply welding procedure specifications</p> <p>MEM12024 Perform computations</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05004 Perform routine oxy fuel gas welding</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05062 Apply welding and welding related codes and standards</p> <p>MEM05078 Apply welding principles</p> <p>MEM09002 Interpret technical drawing</p>
MEM09023 Create 3-D code files using computer-aided manufacturing system	<p>MEM16006 Organise and communicate information</p> <p>MEM12024 Perform computations</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM16008 Interact with computing technology</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09022 Create 2-D code files using computer-aided manufacturing system</p> <p>MEM09002 Interpret technical drawing</p>
MEM08012 Prepare surfaces by abrasive blasting (basic)	<p>MEM16006 Organise and communicate information</p> <p>MEM13003 Work safely with industrial chemicals and materials</p> <p>MEM08016 Control blast coating by-products, materials and emissions</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>

	MEM11011 Undertake manual handling
MEM13004 Work safely with molten metals/glass	MEM16006 Organise and communicate information  MEM13015 Work safely and effectively in manufacturing and engineering  MEM11011 Undertake manual handling
MEM20025 Gain entry	MEM16006 Organise and communicate information  MEM20017 Produce keys by duplication  MEM20016 Produce keys by cutting to code  MEM18002 Use power tools/hand held operations  MEM18001 Use hand tools  MEM20023 Assemble and test lock mechanisms  MEM20024 Install and upgrade locks and hardware  MEM13015 Work safely and effectively in manufacturing and engineering  MEM20015 Produce hand cut keys  MEM11011 Undertake manual handling
MEM20019 Service automotive transponder systems using diagnostic equipment	MEM16006 Organise and communicate information  MEM20018 Identify and program transponder keys  MEM20017 Produce keys by duplication  MEM20016 Produce keys by cutting to code  MEM20031 Gain entry and reinstate automotive locking systems  MEM18001 Use hand tools

	<p>MEM20023 Assemble and test lock mechanisms</p> <p>MEM20025 Gain entry</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM20015 Produce hand cut keys</p>
MEM27007 Diagnose and rectify low voltage starting systems	<p>MEM16006 Organise and communicate information</p> <p>MEM18055 Dismantle, replace and assemble engineering components</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM16003 Provide advanced customer service	<p>MEM16006 Organise and communicate information</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p>
MEM18114 Perform basic radiographic testing	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13018 Work safely with ionizing radiation</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p>
MEM07029 Perform routine sharpening and maintenance of production tools and cutters	<p>MEM16006 Organise and communicate information</p> <p>MEM18001 Use hand tools</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p>
MEM05067 Establish and maintain a welding procedure management system	<p>MEM16006 Organise and communicate information</p> <p>MEM05083 Perform welds to code standards using manual metal arc welding process</p> <p>MEM05082 Perform pipe welds to code standards using manual metal arc welding process</p> <p>MEM14006 Plan work activities</p> <p>MEM05080 Perform welds to code standards using gas metal arc welding process</p> <p>MEM05060 Perform welds to code standards using submerged arc welding process</p> <p>MEM05085 Select welding processes</p> <p>MEM05079 Perform welds to code standards using flux core arc welding process</p> <p>MEM05061 Apply basic metallurgy principles to welding applications</p> <p>MEM05081 Perform welds to code standards using gas tungsten arc welding process</p> <p>MEM12024 Perform computations</p>

	<p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM05088 Perform welds to code standards using oxy fuel gas welding process</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM05078 Apply welding principles</p>
MEM04032 Develop and manufacture irregular joint wood patterns	<p>MEM16006 Organise and communicate information</p> <p>MEM04018 Perform general woodworking machine operations</p> <p>MEM14006 Plan work activities</p> <p>MEM12006 Mark off/out (general engineering)</p> <p>MEM18002 Use power tools/hand held operations</p> <p>MEM18001 Use hand tools</p> <p>MEM12024 Perform computations</p> <p>MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment</p> <p>MEM13015 Work safely and effectively in manufacturing and engineering</p> <p>MEM11011 Undertake manual handling</p> <p>MEM12023 Perform engineering measurements</p> <p>MEM09002 Interpret technical drawing</p>
MEM04006 Operate sand moulding and core making machines	<p>MEM16006 Organise and communicate information</p>



	MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling
MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment	MEM16006 Organise and communicate information MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering
MEM05093 Weld using submerged arc welding process	MEM16006 Organise and communicate information MEM14006 Plan work activities MEM05052 Apply safe welding practices MEM05085 Select welding processes MEM18002 Use power tools/hand held operations MEM18001 Use hand tools MEM12024 Perform computations MEM13015 Work safely and effectively in manufacturing and engineering MEM11011 Undertake manual handling MEM12023 Perform engineering measurements MEM05057 Perform routine submerged arc welding MEM09002 Interpret technical drawing

## Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
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MEM40119 Certificate IV in Engineering	MEM40105 Certificate IV in Engineering		Equivalent
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## Links

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=45a7f1d5-61a5-447a-9688-7abbd7e1a5c7>.