



Australian Government

Department of Education, Employment and Workplace Relations

LMT31909 Certificate III in Engineering - TCF Mechanic

Revision Number: 1

LMT31909 Certificate III in Engineering - TCF Mechanic

Modification History

Not applicable.

Description

This qualification covers the skills and knowledge required to work as a TCF Mechanic in enterprises conducting carding, footwear manufacture, knitting, sewing, spinning, tufting, or weaving operations. Both TCF specific and general mechanical trade skills are included in the qualification. If TCF only skills are required, LMT30107 Certificate III in Textile Production should be considered.

Job roles / employment outcomes

The Certificate III in Engineering - TCF Mechanic offers trade level skills that can then be extended to advanced trade, technician and other engineering applications. Employment outcomes targeted by this qualification include engineering technicians working in the TCF industry.

Application

This qualification is typically used to provide initial training for employees performing a technical role that includes an ability to work independently and conduct technical problem solving according to the needs of technical work in the TCF industry.

Training programs for this qualification are suitable to be undertaken as part of a formal training contract with an employer under an Australian Traineeship arrangement.

Pathways into the qualification

This qualification may be accessed by direct entry to an Australian Apprenticeship. Credit may be granted towards this qualification by those who have completed LMT20107 Certificate II in Textile Production (Intermediate), LMT20207 Certificate II in Textile Production (Complex or Multiple), MEM30205 Certificate III in Engineering - Mechanical Trade, or other relevant qualifications. Credit for this qualification may also include units contained within relevant skill sets.

Pathways from the qualification

Further training pathways from this qualification include MEM40105 Certificate IV in Engineering, MSA41108 Certificate III in Competitive Manufacturing, or other relevant manufacturing qualifications.

Licensing considerations

There are no specific licences that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements in some environments. Local regulations should be checked for details.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills as identified by Manufacturing Skills Australia for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • Use communication technologies efficiently • Communicate production requirements, abnormalities, documentation, first off and other test results • Demonstrate effective and appropriate communication and interpersonal skills when dealing with people from a range of backgrounds • Read, interpret and communicate work related documents • Communicate with operators and other employees
Teamwork	<ul style="list-style-type: none"> • Work cooperatively with people of different ages, gender, race or religion • Liaise with and provide support to other team members • Work as part of a team • Identify team performance required to meet customer needs • Provide leadership to others in the team • Encourage the sharing of information between other team members • Plan and support team activities
Problem-solving	<ul style="list-style-type: none"> • Identify and report problems and make contributions to their solution • Investigate problem causes • Implement changes • Examine equipment for damage, missing components or other defects • Identify and promptly address problems or issues • Assess quality of work according to specifications • Determine effective work practices • Problem solve machine and product operational requirements
Initiative and enterprise	<ul style="list-style-type: none"> • Seek and provide feedback on procedures • Gather and analyse information • Record information on the quality and other indicators of production performance • Identify and implement process improvements • Coordinate work activities and production processes • Use analytical and decision making skills

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Planning and organising	<ul style="list-style-type: none"> Identify hazards and implement appropriate hazard control measures Organise self and others to meet production schedules Sequence work to maximise safety and productivity Select and use appropriate tools and equipment Apply time management skills to ensure work flow
Self-management	<ul style="list-style-type: none"> plan own work requirements from production schedules operate within appropriate time constraints and work standards select and use appropriate equipment, materials, processes and procedures plan to ensure effective production apply workplace procedures identify resource requirements, document and monitor recognise limitations and seek timely advice
Learning	<ul style="list-style-type: none"> ask questions to gain information identify sources of information to expand knowledge and understanding participate in improvement procedures participate in development of continuous improvement strategies
Technology	<ul style="list-style-type: none"> operation and adjustment of production processes to meet design requirements and production schedules start up and shut down equipment set up equipment monitor product/process quality function and operating principles of equipment, machine components maintain computer based workplace records

Packaging Rules

Packaging Rules

The minimum requirements for achievement of the Certificate III in Engineering - TCF Mechanic are:

- completion of all core units of competency listed below
- completion of elective units to a total value of at least 73 points, chosen as described below:
 - TCF mechanic units from Group A to the value of at least 14 points

- Group B mechanical trade units or additional Group A TCF mechanic units to the value of 26 points
- Group C units (or any combination of units from Groups A, B and C) to bring the total value to at least 73 points.

Units with prerequisites are marked with an asterisk. Points associated with prerequisites count towards the total.

Group C units up to the value of 16 points may be chosen from other qualifications in this Training Package, other Training Packages or accredited courses where those units are available for inclusion at Certificate III. Units should be selected on the basis that they are relevant to the work requirements of TCF mechanics. Imported units should not duplicate existing units in this qualification.

Registered Training Organisations must seek a determination from Manufacturing Skills Australia in respect of the allocation of points values for units of competency drawn from other LMT qualifications, other Training Packages or accredited courses.

Core units of competency

- Select all of the units from this list.

Unit code	Unit title
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training

Unit code	Unit title
MSAENV272B	Participate in environmentally sustainable work practices

Elective units of competency

Group A - TCF Mechanic units

- Select units from this list to the value of at least 14 points.

Unit code	Unit title	Points
LMTGN3001B	Control production in a section of a textile, clothing or footwear enterprise	4
LMTGN3009B	Supervise operations in a textiles, clothing and footwear enterprise	4
LMTTX2001B	Identify fibres, yarns and textile materials and their uses in textile production	2
LMTTX2002B	Prepare yarn for textile manufacturing	2
LMTTX3001B	Identify quality and types of textile fibres, yarns and fabrics*	4
LMTTX3002B	Contribute to textile production process improvements	4
LMTTX3011A	Set up, adjust and maintain circular knitting machines	6
LMTTX3012A	Set up, adjust and maintain flat knitting machines	6
LMTTX3013A	Set up and adjust spinning machines	6
LMTTX3014A	Set up, adjust and maintain carding machines	6
LMTTX3015A	Set up, adjust and maintain tufting	6

Unit code	Unit title	Points
	machines	
LMTTX3016A	Set up, adjust and maintain domestic sewing machines	6
LMTTX3017A	Set up, adjust and maintain industrial sewing machines	6
LMTTX3018A	Undertake electronic fault finding on textile machinery	6
LMTTX3019A	Identify and correct mechanical faults in loom and other weaving equipment	6
LMTTX3020A	Identify and correct weaving process faults	6
LMTTX3021A	Apply knowledge of weaving processes to production requirements	6
LMTTX3022A	Set up and operate weaving loom for production	6
LMTTX4001A	Interpret and apply textile calculations and specifications	4

Group B - Mechanical Trade Stream Units

- Select units to the value of at least 26 points from either the units listed below in Group B, or from Group A above (additional to any already chosen).

Note that the MEM units of competency in Group B are only available in the LMT Training Package for the LMT3109 Certificate III in Engineering - TCF Mechanic qualification.

Unit code	Unit title	Points
MEM07001B	Perform operational maintenance of machines/equipment*	2
MEM07002B	Perform precision shaping/planing/slotting operations*	4
MEM07003B	Perform machine setting (routine) *	4

Unit code	Unit title	Points
MEM07004B	Perform machine setting (complex) *	8
MEM07005B	Perform general machining*	8
MEM07006B	Perform lathe operations*	4
MEM07007B	Perform milling operations*	4
MEM07008C	Perform grinding operations*	4
MEM07009B	Perform precision jig boring operations*	4
MEM07010B	Perform tool and cutter grinding operations*	4
MEM07011B	Perform complex milling operations*	4
MEM07012B	Perform complex grinding operations*	4
MEM07013B	Perform machining operations using horizontal and/or vertical boring machine*	4
MEM07014B	Perform electro-discharge (EDM) machining operations*	4
MEM07015B	Set computer controlled machines/processes*	2
MEM07016C	Set and edit computer controlled machines/processes*	4
MEM07018C	Write basic NC/CNC programs*	4
MEM07019C	Program NC/CNC machining centre*	2
MEM07020C	Program multiple spindle and/or multiple axis NC/CNC machining centre*	2
MEM07021B	Perform complex lathe operations*	4

Unit code	Unit title	Points
MEM07022C	Program CNC wire cut machines*	2
MEM07023C	Program and set up CNC manufacturing cell*	6
MEM07024B	Operate and monitor machine/process	4
MEM07025B	Perform advanced machine/process operation*	6
MEM07026B	Perform advanced plastic processing*	6
MEM07027B	Perform advanced press operations*	6
MEM07028B	Operate computer controlled machines/processes*	2
MEM07029B	Perform routine sharpening/maintenance of production tools and cutters*	4
MEM07030C	Perform metal spinning lathe operations (basic) *	8
MEM07031C	Perform metal spinning lathe operations (complex) *	4
MEM07032B	Use workshop machines for basic operations*	2
MEM07033B	Operate and monitor basic boiler	6
MEM07034A	Operate and monitor intermediate class boiler*	4
MEM07040A	Set multistage integrated processes*	6
MEM09002B	Interpret technical drawing	4
MEM09022A	Create 2D code files using computer aided manufacturing system*	4
MEM10004B	Enter and change programmable controller operational parameters*	2

Unit code	Unit title	Points
MEM10006B	Install machine/plant*	4
MEM12003B	Perform precision mechanical measurement*	2
MEM12006B	Mark off/out (general engineering) *	4
MEM13007B	Maintain water treatment systems for cooling towers*	2
MEM18001C	Use hand tools	2
MEM18002B	Use power tools/hand held operations	2
MEM18003C	Use tools for precision work*	4
MEM18004B	Maintain and overhaul mechanical equipment*	4
MEM18005B	Perform fault diagnosis, installation and removal of bearings*	4
MEM18006B	Repair and fit engineering components*	6
MEM18007B	Maintain and repair mechanical drives and mechanical transmission assemblies*	4
MEM18008B	Balance equipment*	2
MEM18009B	Perform levelling and alignment of machines and engineering components*	4
MEM18010C	Perform equipment condition monitoring and recording*	4
MEM18011C	Shut down and isolate machines/equipment	2
MEM18012B	Perform installation and removal of mechanical seals*	2
MEM18013B	Perform gland packing*	2

Unit code	Unit title	Points
MEM18014B	Manufacture press tools and gauges*	8
MEM18015B	Maintain tools and dies*	4
MEM18018C	Maintain pneumatic system components*	4
MEM18019B	Maintain pneumatic systems*	4
MEM18020B	Maintain hydraulic system components*	4
MEM18021B	Maintain hydraulic systems*	4
MEM18022B	Maintain fluid power controls*	8
MEM18024B	Maintain engine cooling systems*	2
MEM18025B	Service combustion engines*	2
MEM18026C	Test compression ignition fuel systems*	4
MEM18027C	Overhaul engine fuel system components*	8
MEM18028B	Maintain engine lubrication systems*	2
MEM18029B	Tune diesel engine*	4
MEM18030B	Diagnose and rectify low voltage electrical systems*	8
MEM18031B	Diagnose and rectify low voltage starting systems*	2
MEM18032B	Maintain induction/exhaust systems*	4
MEM18033B	Perform engine bottom-end overhaul*	4
MEM18034B	Perform engine top-end overhaul*	8
MEM18035B	Diagnose and rectify braking systems*	6

Unit code	Unit title	Points
MEM18037B	Diagnose and rectify low voltage charging systems*	2
MEM18038B	Maintain wheels and tyres*	2
MEM18039B	Diagnose and rectify track type undercarriage*	4
MEM18040B	Maintain suspension systems*	4
MEM18041B	Maintain steering systems*	4
MEM18042C	Diagnose and rectify manual transmissions*	4
MEM18043C	Diagnose and rectify automatic transmissions*	8
MEM18044C	Diagnose and rectify drive line and final drives*	4
MEM18045B	Fault find/repair electrical equipment/components up to 250 volts single phase supply*	4
MEM18046B	Fault find/repair electrical equipment/components up to 1000 volts a.c./1500 volts d.c. *	10
MEM18047B	Diagnose and maintain electronic controlling systems on mobile plant*	4
MEM18048B	Fault find and repair/rectify basic electrical circuits*	12
MEM18049B	Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c. *	3
MEM18050B	Disconnect/reconnect fixed wired equipment over 1000 volts a.c./1500 volts d.c. *	3
MEM18051B	Fault find and repair/rectify complex electrical circuits*	6

Unit code	Unit title	Points
MEM18052B	Maintain fluid power systems for mobile plant*	4
MEM18054B	Fault find, test and calibrate instrumentation systems and equipment*	8
MEM18055B	Dismantle, replace and assemble engineering components*	3
MEM18056B	Diagnose and repair analog equipment and components*	10
MEM18057B	Maintain/service analog/digital electronic equipment*	6
MEM18058C	Modify electronic equipment*	4
MEM18060B	Maintain, repair control instrumentation - single and multiple loop control systems*	8
MEM18062B	Install, maintain and calibrate instrumentation sensors, transmitters and final control elements*	8
MEM18063B	Terminate signal and data cables*	4
MEM18064B	Maintain instrumentation system components*	6
MEM18065B	Diagnose and repair digital equipment and components*	10
MEM18066B	Diagnose and repair microprocessor-based equipment*	6
MEM18067B	Tune control loops - multi controller or multi element systems*	6
MEM18071B	Connect/disconnect fluid conveying system components*	2
MEM18072B	Manufacture fluid conveying conductor assemblies*	4

Unit code	Unit title	Points
MEM18086B	Test, recover, evacuate and charge refrigeration systems*	4
MEM18087B	Service and repair domestic and light commercial refrigeration and air conditioning equipment*	6
MEM18088B	Maintain and repair commercial air conditioning systems and components*	4
MEM18089B	Maintain and repair central air handling systems*	6
MEM18090B	Maintain and repair industrial refrigeration systems and components*	6
MEM18091B	Maintain and repair multi stage, cascade and/or ultra-cold industrial refrigeration systems*	4
MEM18092B	Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls*	6
MEM18094B	Service and repair commercial refrigeration*	6
MEM18095A	Maintain and repair cooling towers/evaporative condensers and associated equipment*	4
MEM18096A	Maintain, repair/replace and adjust refrigerant flow controls and associated equipment*	6
MEM18097A	Manufacture cavity dies*	8

Group C - specialisation units

- The balance of units to bring the total value to at least 73 points (including any prerequisites) may be selected from the Group C units below.

Unit code	Unit title	P
	Appropriate Group C units to the value of 16 points may be drawn from other qualifications in this Training Package, other endorsed Training Packages and accredited courses where those units are available for inclusion at Certificate III.	

Unit code	Unit title	P
LMTGN2002B	Apply quality standards	2
MEM03001B	Perform manual production assembly	4
MEM03002B	Perform precision assembly*	4
MEM03003B	Perform sheet and plate assembly*	4
MEM03004B	Perform electronic/electrical assembly (production)	8
MEM03005B	Rework and repair (electrical/electronic production)*	8
MEM03006B	Set assembly stations*	2
MEM04001B	Operate melting furnaces*	4
MEM04002B	Perform gravity die casting*	2
MEM04003B	Operate pressure die casting machine*	4
MEM04004B	Prepare and mix sand for metal moulding	4
MEM04005B	Produce moulds and cores by hand (jobbing)*	16
MEM04006B	Operate sand moulding and core making machines	8
MEM04007B	Pour molten metal*	4
MEM04008B	Fettle and trim metal castings/forgings*	4
MEM04010B	Develop and manufacture wood patterns*	20
MEM04011B	Produce polymer patterns*	8
MEM04012B	Assemble plated patterns*	8
MEM04013B	Develop and manufacture polystyrene patterns*	2

Unit code	Unit title	P
MEM04014B	Develop and manufacture production patterns*	8
MEM04015B	Develop and manufacture vacuum forming moulds and associated equipment*	6
MEM04016C	Develop and manufacture precision models*	6
MEM04017B	Develop and manufacture gear, conveyor screw and propeller patterns*	4
MEM04018B	Perform general woodworking machine operations*	4
MEM04019B	Perform refractory installation and repair*	4
MEM05001B	Perform manual soldering/desoldering - electrical/electronic components	4
MEM05002B	Perform high reliability soldering and desoldering*	4
MEM05003B	Perform soft soldering	2
MEM05004C	Perform routine oxy acetylene welding	2
MEM05005B	Carry out mechanical cutting*	2
MEM05006B	Perform brazing and/or silver soldering	2
MEM05007C	Perform manual heating and thermal cutting	2
MEM05008C	Perform advanced manual thermal cutting, gouging and shaping*	2
MEM05009C	Perform automated thermal cutting*	2

Unit code	Unit title	P
MEM05010B	Apply fabrication, forming and shaping techniques*	8
MEM05011C	Assemble fabricated components*	8
MEM05012C	Perform routine manual metal arc welding	2
MEM05013C	Perform manual production welding*	2
MEM05014C	Monitor quality of production welding/fabrications*	2
MEM05015C	Weld using manual metal arc welding process*	4
MEM05016C	Perform advanced welding using manual metal arc welding process*	4
MEM05017C	Weld using gas metal arc welding process*	4
MEM05018C	Perform advanced welding using gas metal arc welding process*	4
MEM05019C	Weld using gas tungsten arc welding process*	4
MEM05020C	Perform advanced welding using gas tungsten arc welding process*	4
MEM05022C	Perform advanced welding using oxy acetylene welding process*	6
MEM05023C	Weld using submerged arc welding process*	4
MEM05036C	Repair/replace/modify fabrications*	4
MEM05037B	Perform geometric development*	6
MEM05038B	Perform advanced geometric development - cylindrical/rectangular*	2

Unit code	Unit title	P
MEM05039B	Perform advanced geometric development - conical*	2
MEM05040B	Perform advanced geometric development - transitions*	4
MEM05041B	Weld using powder flame spraying*	4
MEM05047B	Weld using flux core arc welding process*	4
MEM05048B	Perform advanced welding using flux core arc welding process*	4
MEM05049B	Perform routine gas tungsten arc welding	2
MEM05050B	Perform routine gas metal arc welding	2
MEM05051A	Select welding processes	2
MEM05052A	Apply safe welding practices	4
MEM05053A	Set and edit computer controlled thermal cutting machines*	4
MEM05054A	Write basic NC/CNC programs for thermal cutting machines*	4
MEM06001B	Perform hand forging*	4
MEM06002B	Perform hammer forging	4
MEM06003C	Carry out heat treatment	6
MEM06004B	Select heat treatment processes and test finished product*	6
MEM06005B	Perform drop and upset forging*	4
MEM06006C	Repair springs*	4
MEM06007B	Perform basic incidental heat/quenching, tempering and annealing	2

Unit code	Unit title	P
MEM06008A	Hammer forge complex shapes*	4
MEM06009A	Hand forge complex shapes*	4
MEM08001B	Perform wire, jig and barrel load/unload work	4
MEM08002C	Pre-treat work for subsequent surface coating	4
MEM08003C	Perform electroplating operations*	6
MEM08004B	Finish work using wet, dry and vapour deposition methods*	4
MEM08005B	Prepare and produce specialised coatings*	4
MEM08006B	Produce clear and/or coloured and/or sealed anodised films on aluminium*	2
MEM08007B	Control surface finish production and finished product quality	4
MEM08008B	Operate and control surface finishing waste treatment process*	3
MEM08009C	Make up solutions*	2
MEM08010B	Manually finish/polish materials*	6
MEM08011B	Prepare surfaces using solvents and/or mechanical means*	2
MEM08012B	Prepare surfaces by abrasive blasting (basic)*	4
MEM08013B	Prepare surfaces by abrasive blasting (advanced)*	4
MEM08014B	Apply protective coatings (basic)*	4
MEM08015B	Apply protective coatings (advanced)*	4
MEM08016B	Control blast coating by-products,	1

Unit code	Unit title	P
	materials and emissions*	
MEM08018B	Electroplate engineering coatings*	6
MEM08019B	Electroplate protective finishes*	6
MEM08020B	Electroplate decorative finishes*	6
MEM09003B	Prepare basic engineering drawing*	8
MEM09005B	Perform basic engineering detail drafting*	8
MEM09011B	Apply basic engineering design concepts*	6
MEM09021B	Interpret and produce curved 3-dimensional shapes	4
MEM10001C	Erect structures*	4
MEM10002B	Terminate and connect electrical wiring*	3
MEM10003B	Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.*	12
MEM10005B	Commission programmable controller programs*	4
MEM10009B	Install refrigeration and air conditioning plant and equipment*	4
MEM10010B	Install pipework and pipework assemblies*	4
MEM10011B	Terminate and connect specialist cables*	3
MEM10012A	Install split air conditioning system*	4
MEM11001C	Erect/dismantle scaffolding and equipment*	4

Unit code	Unit title	P
MEM11002C	Erect/dismantle complex scaffolding and equipment*	4
MEM11003B	Coordinate erection/dismantling of complex scaffolding/equipment*	4
MEM11004B	Undertake dogging*	4
MEM11005B	Pick and process order	4
MEM11006B	Perform production packaging	2
MEM11007B	Administer inventory procedures	4
MEM11008B	Package materials (stores and warehouse)	2
MEM11009B	Handle/move bulk fluids/gases	4
MEM11010B	Operate mobile load shifting equipment	4
MEM11011B	Undertake manual handling	2
MEM11012B	Purchase materials	6
MEM11013B	Undertake warehouse receipt process*	4
MEM11014B	Undertake warehouse dispatch process*	4
MEM11015B	Manage warehouse inventory system*	6
MEM11016B	Order materials	2
MEM11017B	Organise and lead stocktakes*	4
MEM11018B	Organise and maintain warehouse stock receipt and/or dispatch system*	6
MEM11019B	Undertake tool store procedures*	4
MEM11020B	Perform advanced warehouse computer operations*	4

Unit code	Unit title	P
MEM11021B	Perform advanced operation of load shifting equipment*	2
MEM11022B	Operate fixed/moveable load shifting equipment	4
MEM12001B	Use comparison and basic measuring devices	2
MEM12002B	Perform electrical/electronic measurement	2
MEM12004B	Perform precision electrical/electronic measurement	4
MEM12007C	Mark off/out structural fabrications and shapes*	4
MEM12019B	Measure components using coordinate measuring machine	4
MEM12020B	Set and operate coordinate measuring machine	2
MEM12021B	Program coordinate measuring machine*	4
MEM12022B	Program coordinate measuring machines (advanced)*	2
MEM12025A	Use graphical techniques and perform simple statistical computations*	2
MEM13001B	Perform emergency first aid	1
MEM13002B	Undertake occupational health and safety activities in the workplace	3
MEM13003B	Work safely with industrial chemicals and materials	2
MEM13004B	Work safely with molten metals/glass	2
MEM13006B	Collect and evaluate occupational health and safety data for an	4

Unit code	Unit title	P
	enterprise or section of an enterprise	
MEM13010A	Supervise occupational health and safety in an industrial work environment*	4
MEM13013B	Work safely with ionizing radiation	4
MEM15001B	Perform basic statistical quality control	2
MEM15003B	Use improvement processes in team activities*	4
MEM15004B	Perform inspection	2
MEM15005B	Select and control inspection processes and procedures*	4
MEM15015B	Examine trading practices*	5
MEM15016B	Inspect pre-packed articles*	8
MEM15022B	Verify reference standards*	8
MEM16001B	Give formal presentations and take part in meetings	2
MEM16002C	Conduct formal interviews and negotiations	4
MEM16004B	Perform internal/external customer service	2
MEM16005A	Operate as a team member to conduct manufacturing, engineering or related activities	2
MEM16011A	Communicate with individuals and small groups*	2
MEM16013A	Operate in a self-directed team*	2
MEM17001B	Assist in development and deliver training in the workplace	2

Unit code	Unit title	P
MEM17002B	Conduct workplace assessment	2
MEM30012A	Apply mathematical techniques in a manufacturing, engineering or related environment	4