

Qualification details



MEM31219 - Certificate III in Engineering - Industrial Electrician

Summary

Releases:	Release	Status	Release date
	2	Current	2021/03/31
	1	Replaced	2019/06/26

Usage recommendation: **Current**

Mapping:	Mapping	Notes	Date
	Supersedes and is equivalent to MEM31215 - Certificate III in Engineering - Industrial Electrician	Supersedes and is equivalent to MEM31215 Certificate III in Engineering - Industrial Electrician	2019/06/26

Training packages that include this qualification

Code	Title	Release
MEM	Manufacturing and Engineering	2.1 - 4.0

Units of competency

Code	Title	Essential
MEM05001	Perform manual soldering/desoldering - electrical/electronic components	Elective
MEM05012	Perform routine manual metal arc welding	Elective
MEM05050	Perform routine gas metal arc welding	Elective
MEM07032	Use workshop machines for basic operations	Elective
MEM10016	Terminate and test electrical wiring and accessories	Core
MEM10018	Select cable types and sizes to suit loads and electrical installation environment	Core
MEM10019	Select circuit protection devices by type and rating, fit to switchboards and install earthing	Core
MEM10020	Install low voltage cabling and fit-off accessories, appliances and equipment	Core
MEM10021	Inspect, test and verify electrical installations	Core
MEM10022	Commission and decommission high and low voltage equipment or installations	Core
MEM10023	Design and connect control switching of circuits for building services and industrial equipment	Core
MEM10024	Install and troubleshoot luminaires and ancillary equipment	Core
MEM10025	Undertake a capstone assessment	Core
MEM12023	Perform engineering measurements	Core
MEM12024	Perform computations	Core
MEM13015	Work safely and effectively in manufacturing and engineering	Core
MEM13016	Work in hazardous areas	Elective
MEM13017	Apply safety practices, procedures and compliance standards associated with licensed electrical work	Core
MEM14006	Plan work activities	Core

Code	Title	Essential
MEM16006	Organise and communicate information	Core
MEM16008	Interact with computing technology	Core
MEM17003	Assist in the provision of on-the-job training	Core
MEM18001	Use hand tools	Core
MEM18100	Fault-find, test and rectify AC machines and circuits	Core
MEM18102	Fault-find, test and rectify single and three-phase transformers	Core
MEM18103	Fault-find, test and rectify electrical circuits and equipment	Core
MEM18104	Dismantle, replace and assemble electrical components and equipment	Core
MEM18105	Disconnect and reconnect high voltage fixed wired equipment	Elective
MEM18106	Terminate communication and data cables	Elective
MEM18108	Troubleshoot analog and digital electronic equipment	Elective
MEM18109	Troubleshoot instrumentation systems and equipment	Elective
MSMENV272	Participate in environmentally sustainable work practices	Core
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	Core
UEENEEE104A	Solve problems in d.c. circuits	Core
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	Core
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	Core
UEENEEG102A	Solve problems in low voltage a.c. circuits	Core

Classifications

Scheme	Code	Name
ANZSCO Identifier	341112	Electrician (Special Class)
ASCED Qualification/Course Field of Education Identifier	0313	Electrical And Electronic Engineering And Technology
Qualification/Course Level of Education Identifier	514	Certificate III
Taxonomy - Industry Sector	N/A	Electrical Engineering
Taxonomy - Occupation	N/A	Electrician (Industrial)

Classifications history

Scheme	Code	Name	Start date	End date
ANZSCO Identifier	341112	Electrician (Special Class)	2019/06/26	
ASCED Qualification/Course Field of Education Identifier	0313	Electrical And Electronic Engineering And Technology	2019/06/26	
Qualification/Course Level of Education Identifier	514	Certificate III	2019/06/26	