

Facilities and Equipment Checklist

Qualification:	MEM20413 Certificate II in Engineering Pathways (Release 1)		
School:			
Reviewed by:		Date:	
- 1151			

Qualification Description

This qualification applies to a learning and assessment environment where access to structured on-the-job learning in a workplace may not be available. This qualification is only for delivery in learning institutions.

The qualification is intended for people interested in exposure to an engineering or related working environment with a view to entering into employment in that area. This qualification will equip graduates with knowledge and skills which will enhance their prospects of employment in an engineering or related working environment.

Instructions

Review and select the units being undertaken in this qualification.

Note:

- If an alternative unit is selected that has not been listed, please contact AIET.
- Teachers and students must have access to digital devices for the purposes of capturing photographic or video evidence. This may be students' personal devices according to relevant school policy, or provided by the school.

Tick all relevant units being delivered:	Units	
Core Units		
√	MEM13014A	Apply principles of Occupational Health & Safety in work environment
√	МЕМРЕ005А	Develop a career plan for the engineering and manufacturing industry
√	МЕМРЕООБА	Undertake a basic engineering project
V	MSAENV272B	Participate in environmentally sustainable work practices
Elective Units (tick all that apply)		
	MSAPMSUP106A	Work in a team
	MEM16008A	Interact with computing technology
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations
	MEMPE001A	Use engineering workshop machines
	MEMPE002A	Use electric welding machines
	МЕМРЕ003А	Use oxy-acetylene and soldering equipment
	MEMPE004A	Use fabrication equipment
	MEM16006A	Organise and communicate information

Instructions

Review the equipment requirements for the qualification. Notes on equipment in place can be included in the Notes/Details column Where possible photos should be taken to be submitted with this checklist.

- Table 1: All items in Table 1 must be checked as available
- Table 2: Please provide information related to all elective units being delivered.

Resources unavailable:

Where the resources do not meet all the assessment conditions listed in the checklist, please note the Action Plan in place for how the requirement will be addressed. (i.e., request to alter elective units in training, arrange for students to be trained and assessed at another facility for all or part of training, equipment being ordered, installation pending etc.)

If appropriate arrangements are not able to be made, please contact the Quality and Compliance Team at AIET on Ph 03 9387 2051 or info@aiet.edu.au

Table 1: Equipment/Resources required for all units in this qualification:

Please ensure that all items listed below are available at your school in order to deliver this qualification.

Equipment requirements	Notes/Action Plan	AIET Office Use Verified
<example> Safety procedures including but are not limited to, one or more of: □ PPE □ Handling, labelling and storing hazardous material and equipment in accordance with labels, MSDS, manufacturer instructions and workplace procedures and regulations, emergency response procedures □ Cleaning and/or decontamination of equipment □ machinery guards ⋈ signage, barriers, service isolation tags, traffic control and flashing lights, lockout and tag-out procedures</example>	Isolation tags on order. No flashing lights installed in school lab,, when required we will simulate these with borrowed equipment from production	<e.g. photo)=""> <e.g. sighted=""></e.g.></e.g.>
Safety equipment and PPE including: Safety glasses, face and head protection, hard hats, protective footwear, protective clothing, breathing apparatus, ear protection, gloves First aid kit and evacuation plans, safety signage Safety harness, screens, barriers and shielding, extraction fans, machine guards, isolation devices		

Equipment requirements	Notes/Action Plan	AIET Office Use Verified
☐ Access to a reliable internet connection and a computer/workstation and research resources		
Access to documentation, procedures and specifications:		
 □ Workplace instructions relating to safe work practices and addressing hazards and emergencies, Safety Data Sheets (SDS) □ Appropriate State safety regulations and resources about building/construction industries and job opportunities, professional industry associations □ Relevant workplace induction procedures and equipment manuals, workplace instructions, plans, cutting lists, drawings and designs 		
 Workplace policies and procedures/instructions including: legislation, protective equipment, material safety management systems, hazardous substances and dangerous goods code, local safe operating procedures, awards provisions 		
Drawing equipment and tools, materials and documentation required including: ☐ instructions, job sheets, cutting lists, plans, drawings and designs, sketches		
Tools and equipment may include but are not limited to: hacksaws, hammers, punches, screwdrivers, sockets, wrenches, scrapers, chisels, gouges, wood planes and files of all cross-sectional shapes and types, marking equipment, measuring equipment, jigs, cutting tools, files, spanners, scribers		
Waste disposal facilities ☐ liquid waste disposal ☐ solid waste disposal		

Table 2: Equipment/Resources required for *individual* units in this qualification:

The units listed below are only units that require additional resources that are not covered in the Table 1 above.

Unit Code and Title	Equipment requirements	Notes/Action Plan	AIET Office Use Verified
Core Units			
MEM13014A Apply principles of Occupational Health & Safety in work environment	Additional resources may include: Safety signs /symbols including: Standard signage/symbols conforming to AS 1319-1994 Safety signs for the occupational environment, and any other applicable Australian Standards Workplace-specific signage Typical classes of relevant signs/symbols are: mandatory, prohibition, danger, caution, general safety, safety information, fire safety equipment		
MEMPE006A Undertake a basic engineering project	Additional resources may include: Engineering materials including: types of metal, thermo setting and thermo plastic polymers, fibre glass, carbon fibre, threaded fasteners, pins, circlips, rivets, welding, folded joints, adhesives shapes of metal materials including: sheet, plate, bar, angle iron, extruded forms, channel, beams		
MSAENV272B Participate in environmentally sustainable work practices	Additional resources may include: Procedures and plans including: workplace procedures work instructions Documentation and Management reports in relation to: production waste management/disposal overheads hazard control		

Unit Code and Title	Equipment requirements	Notes/Action Plan	AIET Office Use Verified
	 □ emissions □ invoices from suppliers □ life cycle analysis applied to: energy supply materials transport □ Relevant industry and governments codes and standards □ Internet access 		
Elective Units			
MSAPMSUP106A Work in a team	Additional resources may include:		
MEM16008A Interact with computing technology	Additional resources may include: Access procedures including: logging on procedures, security procedures, virus checks, start -up routines, application start-up Technology including: handheld data recording devices, screen based equipment, person computers, bar coders Applications including:		

Unit Code and Title	Equipment requirements	Notes/Action Plan	AIET Office Use Verified
	 □ word processing spreadsheets and databases, customised engineering and manufacturing applications, Material Resource Planning (MRP), warehousing inventory applications, predictive reliability and maintenance applications, production data management applications Data output including: □ Report, email, chart, graph, printout, data transfer, labels 		
MEM18002B Use power tools/hand held operations	Additional resources may include: Power tools including: □ electric or pneumatic/hydraulic drills, grinders, jigsaws, nibblers, cutting saws, sanders, planers, routers, pedestal drills, pedestal grinders		
	Clamping equipment including: ☐ multigrips, vices, jigs and fixtures, clamps etc.		
	Procedures, regulatory requirements and resources for maintenance of power tools for routine including: □ hand sharpening, cleaning, lubricating, tightening		
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MEMPE001A Use engineering workshop machines	Additional resources may include: Appropriate machines including but not limited to: I milling machines, cut off saws, pedestal grinders, fixed position drilling machines, computer controlled machines, technical manuals		
	Measuring equipment including but is not limited to: ☐ Micrometers, vernier scaled measuring devices, rules, calipers, gauges		
MEMPE002A Use electric welding machines	Additional resources may include: Welding processes including: manual metal arc welding		

Unit Code and Title	Equipment requirements	Notes/Action Plan	AIET Office Use Verified
	☐ gas metal arc welding ☐ tungsten metal arc welding		
MEMPE003A Use oxy-acetylene and soldering equipment	Additional resources may include: Use of heating equipment including: oxy-acetylene equipment LP gas equipment electrically heated equipment/soldering irons safe silver soldering and brazing practices including but not limited to ensuring the solder being used has no known health risks		
MEMPE004A Use fabrication equipment	Additional resources may include: Fabrication machinery including: shapers, benders, rollers, cut off machines, guillotines Measuring equipment including: tape measures, vernier scaled measuring devices, rules, gauges		
MEM16006A Organise and communicate information	Additional resources may include: Relevant procedures and documents including: specifications standard operating procedures charts lists computer data, bar coding and simple keyboard operations Proforma reports		

SCHOOL DECLARATION	
I confirm that we have all	the equipment and facilities required to deliver our chosen units of competency for this qualification.
□ YES □ NO	
Trainer name:	
Trainer signature:	
Date:	
RTO APPROVAL SIGN O	FF ist for each unit being delivered, the school has the required facilities and equipment to assess the units chosen?
☐ YES ☐ NO	
*If no, actions to be take	n:
Name:	
Signature:	
Date:	