

Kirwan State High School is partnered with Axial Training

RTO number: 2437



MEM20422 Certificate II in Engineering Pathways

Qualification description

This qualification develops trade-like skills and is not intended to develop trade-level skills. As an example, the outcome level of welding skills from this qualification is not about learning trade -level theory and practice of welding; it is about being introduced to welding, how it can be used to join metal with the opportunity to weld some metal together. Similarly, with machining the outcome should be something produced on a lathe etc., not the theory and practice of machining. The focus should be on using engineering tools and equipment to produce or modify objects. This needs to be done in a safe manner for each learner including people near the learner.

Refer to training.gov.au for specific information about the qualification.

Entry requirements

There are no entry requirements for this qualification.

Duration and location

This is a one year course delivered in Years 11 and 12 on site at Kirwan State High School in partnership with Axial Training.

Course units

To attain a MEM20422, 12 units of competency must be achieved:

Unit code	Title
MEM13015	Work safely and effectively in manufacturing and engineering
MEMPE005	Develop a career plan for the engineering and manufacturing industry
MEMPE006	Undertake a basic engineering project
MSMENV272	Participate in environmentally sustainable work practices
MEM16006	Organise and communicate information
MEM18001	Use hand tools
MEMPE003	Use Oxy-acetylene and soldering equipment
MEM18002	Use power tools/handheld operations
MEMPE001	Use engineering workshop machines
MEMPE002	Use electric welding machines
MEM11011	Undertake manual handling
MEMPE007	Pull apart and re-assemble engineering mechanisms

Obligation

Employment is not guaranteed upon completion of this qualification. Student enrolment, complaints and appeals are managed by Axial Training

Students who are deemed competent in all 12 units of competency will be awarded a Qualification and a Record of Results by Axial Training. Students who achieve at least one unit of competency (but not the full qualification) will receive a Statement of Attainment issued by Axial Training.

Delivery modes

A range of delivery modes will be used during the teaching and learning of this qualification. These include:

- face-to-face instruction
- guided learning

Fees

All fees are published on Kirwan State High Schools VET subject selection form

Assessment

Assessment is competency based and completed in a simulated engineering environment.

Units of competency are clustered through projects and assessed in this way to replicate what occurs in an engineering workshop as closely as possible.

Assessment techniques include:

- observation
- questioning
- projects
- written and practical tasks.

Work placement

Students are provided with the opportunity to do structured workplace learning in a range of Engineering Workshops

Pathways

This qualification may articulate into: This qualification delivers broad-based underpinning skills and knowledge in a range of engineering and manufacturing tasks which will enhance the graduates' entry-level employment prospects for apprenticeships, traineeships or general employment in an engineering-related workplace.

See other qualifications at training.gov.au.