

KIC Metals & Engineering School Based Traineeship

Overview

The KIC Metals & Engineering School Based Traineeship is an initiative of the Kwinana Industries Council and is based at Gilmore College. Students are enrolled full time at Gilmore College, receive training one day per week at Challenger Institute of Technology and spend blocks of time in work placements.

SMYL Community Services acts as the employer and will cover the trainee for insurance, provide PPE and arrange monitoring visits to ensure the trainee and host have the support required. Students are paid a training wage throughout the program.

The KIC program is held in high regard in industry and placement rates for students into apprenticeships are very high at the end of Year 12. Over 200 trainees have graduated from the program over the last 10 years, students have operated at such high standards they have gone on to represent the program at the national 'World Skills' event.

Pathway

All students enrolled will complete a two year program in the following areas:

- English
- Mathematics
- Engineering Studies
- Materials, Design and Technology
- Design (Technical Graphics, CAD – Year 12)
- Workplace Learning
- Challenger Institute of Technology 1 Day

Challenger Institute of Technology (1 day)

Year 11 and 12 students will complete a Certificate II in Engineering - Production delivered by TAFE. (See over for further details).

Workplace Learning

Workplace Learning provides students with the opportunity to attend the workplace and experience a range of vocations within their field of interest. This is a Curriculum Council subject and students will be assessed on their efforts based on employer feedback and teacher visits. Students enrolled are required to complete a Senior First Aid Course. On completion of the program students will have basic OH&S training and a variety of workshop skills.

Host Employers Role

Host employers are asked to:

- Provide on the job training in accordance with the units of competency described in the Training Record Book. The trainee should always be supervised and signed off when competent.
- Assist with monitoring reports and sign weekly timesheets.

Costs

The training wage costs are as follows:

Year 11 - \$2872.80 (ex.GST)

Year 12 - \$3149.44 (ex.GST)

Invoices can be issued annually or when the trainees are in the workplace on an ongoing hourly option.

Opportunities

Most students who successfully complete the KIC Metals & Engineering Traineeship obtain employment in one of the following areas as an apprentice:

- Fabrication: welder, sheet metal worker, boilermaker, shipwright, pattern maker and electrical fitter.
- Mechanical: plant mechanic, heavy duty mechanic, electroplater, fitter, metal machinist, refrigeration, mechanic and tool maker.

Further Studies

Students will be eligible to pursue Challenger Institute of Technology courses at the end of the Metals and Engineering Traineeship or articulate directly into an apprenticeship. Gilmore College has a 98% placement rate for students who successfully complete the KIC Metals and Engineering traineeship.

Entry Requirements

All Year 10 students wishing to be considered for the KIC Metals and Engineering School Based Traineeship must have the following qualities and achievements:

- Enthusiasm for working in the Engineering Industry
- Parental support
- Personal presentation
- Punctuality, reliability and honesty
- Level four in Mathematics, Science and English

Applications must be lodged with a current Resume at Gilmore College. Students will be required to sit an aptitude test and undergo an interview for selection into the program.

Completion

At the end of year 12 trainees will complete their WACE and Traineeship Certificate II in Engineering Production and will be 'work-ready'. This will reduce the time needed to complete an Apprenticeship in an associated industry.

Challenger Institute of Technology (1 day)

Certificate II Engineering - Production over two years

Units of competency are delivered by Challenger Institute of Technology as follows:

Year 11

MEM12.23A	Perform engineering measurements
MEM12.24A	Perform computations
MEM13.14B	Apply principles of occupational health and safety in the work environment
MEM14.4A	Plan to undertake a routine task
MEM15.24A	Apply quality procedures
MEM16.7A	Work with others in a manufacturing, engineering or related environment
MEM18.1C	Use hand tools
MEM18.2B	Use power tools/hand held operations
MEM5.12C	Perform routine manual metal arc welding
MEM5.7C	Perform manual heating and thermal cutting
MEM7.24B	Operate and monitor machine/process
MEM7.32B	Use workshop machines for basic operations

Year 12

MEM05005B	Carry out mechanical cutting
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding
MEM09002B	Interpret technical drawing
MEM15002A	Apply quality systems

Off the Job Training

Year 11

- Safety awareness
- Basic hand and power tool operation
 - Measuring
 - Marking out
 - Hacksawing
 - Filing
- Use of drill press
- Use of small angle grinders
- Basic lathe operations
 - Facing
 - Parallel turning
 - Drilling
- Very basic milling operation (depending on skill)
- Basic exposure to oxy-acetylene equipment, ARC welding and MIG welding as Year 10.

All of the above skills require revision and reinforcement within the workplace environment. With instruction, students could participate in basic fitting/maintenance operations.

Year 12

- Safety awareness
- Hand and power tool operation
 - Measuring
 - Marking out
 - Hacksawing
 - Filing
- Use of drill press
- Use of small angle grinders
- Lathe operations
 - Facing
 - Parallel turning
 - Drilling
 - Knurling
 - Boring
 - Taper turning
- Basic milling operation
- Experience with oxy-acetylene equipment, ARC welding and MIG welding

All skills require revision and reinforcement within the working environment. With instruction, students could participate in basic fitting/maintenance operations.