

## ***CERTIFICATE I IN ENGINEERING AND CERTIFICATE I IN FURNISHING***

Due to the changes in Industry and the reforms to Vocational Education and Training, it is now imperative that student learning be geared toward the training pathways for workforce entrants.

With this in mind, students undertaking this course will receive accreditation in Certificate I in Furnishing and Certificate I in Engineering. This course will enable them to access a variety of learning opportunities and pathways of post school education, training and work options.

### ***COURSE CONTENT***

The course will consist of the following Modules:

<b><i>Furnishing</i></b>	<b><i>Engineering</i></b>
LMFCR0001A - Safe working practices and policies	MEM16.7A - Work with others in a manufacturing, engineering or related environment
LMFCR0002A - Communication in the workplace	MEM13.14A - Applying principles of OHS in a work environment
LMFCR0003A - Measurement and communication	MEM15.24A - Applying quality procedures
LMFCR0004A - Working effectively with others	MEM14.4A - Plan to undertake a routine task
LMFFM1001A - Constructing a basic furnishing product	MEM18.1C - Use hand tools
LMFFM1002A - Operating basic woodworking machines	MEM18.2B - Use power tools/hand held operations
	MEM5.12C - Perform routine manual metal arc welding
	MEM5.4C - Perform routine oxy acetylene welding
	MEM5.5B - Carry out mechanical cutting
	MEM5.6B - Perform brazing and/or silver soldering
	MEM5.7C - Perform manual heating and thermal cutting
	MEM7.32B - Use workshop machines for basic operations
	MEM12.23A - Perform engineering measurements
	MEM11.11B - Undertake manual handling
	MEM16.8B - Interact with computing technology

Over the course of two years, students complete a number of projects to demonstrate the above competencies. Examples of projects currently undertaken by students are:

### ***Year 11***

Cube, Screwdriver, Table, Sheet Metal Project, Wall Plaque

### ***Year 12***

Clock, Manual Metal Arc Welding, Meat Mallet, Cabinet, an object of Wood Turning

### ***PREREQUISITE***

While it is not absolutely necessary to have completed Year 10 Practical Workshop, but it would be an advantage to a student to have completed these courses. Students will need to show high aptitude and motivation to complete the modules /competencies.

### ***CAREER POSSIBILITIES***

Numerous opportunities for further employment and training are available in both of these industry areas. Apprenticeships are a common career pathway for students to take. Further study can lead to a qualification in Diploma, Associate Diploma and Degree courses in areas such as Engineering, Built Environment.

### **ASSESSMENT**

Practical projects

Written classwork

Continuous assessment of class projects

Certificate I in Engineering and Certificate I in Furnishing are stand-alone vocational certificates. All assessment is competency-based. Competency-based assessment is the process of collecting evidence and making judgments on whether the student can consistently demonstrate knowledge and skill, and the application of that knowledge and skill to the standard of performance required in a workplace.

All competencies achieved will be listed on the Senior Statement. A level of achievement, such as VHA, HA etc, will NOT appear on the Senior Statement.

Students who achieve competency in all Units of Competency over the two years of study will receive **Certificate I in Engineering** and **Certificate I in Furnishing**. Students who do not complete all Units of Competency will obtain a Statement of Attainment (for each certificate) outlining the Units of Competency successfully completed over the two years of the course.

### **TEXTBOOK**

A number of texts are used to support the underpinning knowledge of the course. Students work from resources supplied. Please note this is a highly consumable subject.

### **OTHER REQUIREMENTS**

Overalls or long trousers and long sleeve shirt for the welding component

### **Queensland Certificate of Education - 4 points – 2 points per certificate**

The Australian Quality Training Framework (AQTF) mandates that all Registered Training Organisations (RTOs), of which Wynnum State High School is one, place the following statement on all courses of study that offer nationally recognised vocational certificates.

"The school must have certain teachers and equipment to run this course. If the school loses access to these resources, the school will attempt to provide students with alternative opportunities to complete the course and the related qualification. The school retains the right to cancel the course if it is unable to meet requirements."

