

## Master of Engineering Practice (MEPR) - MEngPrac

	External <sup>^*</sup>
<b>Start:</b>	Semester 1 (February) Semester 2 (July) Semester 3 (November)
<b>Fees:</b>	Commonwealth supported place Domestic full fee paying place International full fee paying place
<b>Standard duration:</b>	6 semesters part-time
<b>Program articulation:</b>	From: <a href="#">Bachelor of Engineering Science</a>

### Footnotes

<sup>^</sup> External students must be able to attend mandatory residential schools at a USQ campus.

<sup>\*</sup> This program is not available to international students unless living in Australia and holding a valid visa with a duration of no less than 3 years.

## Contact us

Future Australian and New Zealand students	Current students
<a href="#">Ask a question</a> Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: <a href="mailto:study@usq.edu.au">study@usq.edu.au</a>	<a href="#">Ask a question</a> Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email <a href="mailto:usq.support@usq.edu.au">usq.support@usq.edu.au</a>

## Professional accreditation

The program is accredited by Engineers Australia and graduates are eligible for Graduate membership at the Professional Engineer level.

Provisional accreditation for the Public Works and Infrastructure specialisation has been approved from 2018.

## Program aims

To enable experienced Engineering Technologists to demonstrate and/or acquire the academic, personal, professional, and technical knowledge, skills and understanding required to commence practice as a graduate Professional Engineer in Australia or overseas within appropriate social, cultural, industrial and environmental contexts.

## Program objectives

On completion of this program students should be able to:

- justify, evaluate and illustrate the professional attributes, competencies and capabilities that will lead to recognition by Engineers Australia as a professional engineer
- acquire expert and specialised cognitive and technical skills and competencies in one of the following fields: Civil Engineering; Electrical and Electronic Engineering; Environmental Engineering, Mechanical Engineering; Power Systems Engineering, Public Works and Infrastructure, or Structural Engineering
- demonstrate and/or acquire an advanced and integrated understanding of a complex body of knowledge and theories, concepts and processes in their chosen discipline as a professional engineer
- critically analyse, reflect and synthesise information to interpret and transmit knowledge, skills and ideas to a variety of professional and non-professional audiences
- meet eligibility to apply for Stage 1 Professional Engineer membership of Engineers Australia and to benchmark competency attributes to Engineers Australia Stage 2 Experienced Professional Engineer.

## Australian Qualifications Framework

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 09. Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting [www.aqf.edu.au](http://www.aqf.edu.au).

## Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of an Australian university three year Bachelor degree in the area of engineering science or engineering technology in the relevant cognate major or equivalent and a minimum of five years' professional work experience, or equivalent.<sup>#\*</sup>
- English Language Proficiency requirements for Category 3.

# Candidates may be admitted on the basis of professional registration as a Technologist Member of Engineers Australia. Candidates must be able to demonstrate that they have at least five years' relevant and significant engineering experience usually after graduation and are required to provide a Curriculum Vitae (CV) to demonstrate their industry experience.  
This program is not available to international students unless living in Australia and holding a valid visa with a duration of no less than 3 years. The standing of degrees awarded by an overseas institution will be determined by reference to the Sydney

### **International full fee paying place**

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

### **Program structure**

The Master of Engineering Practice program is a 12-unit program made up of the following three components:

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- [ENG8300 Self-Assessment Portfolio](#)
- [ENG8311 Workplace Portfolio](#) (2 units)
- [ENG8308 Industry Project](#) (2 units)
- [ENM1600 Engineering Mathematics](#)
- [ENG8208 Advanced Engineering Project Management](#) or [ENG8104 Asset Management in an Engineering Environment](#) or [ENG8205 Project Management Practice](#)

### **ENG8300 Self-assessment Portfolio**

The course [ENG8300 Self-Assessment Portfolio](#) is the first course students undertake in the program and it is designed to enable students to assess their existing attributes and capabilities and nominate the specific workplace experiences they will use to demonstrate their level of competency in the courses: [ENG8311 Workplace Portfolio](#) and [ENG8308 Industry Project](#). Students will also nominate the Academic courses they will undertake in the program to enable them to satisfy the remaining attribute and capability requirements in the program objectives. It may also be necessary for them to identify some specific types of industrial experience they need to undertake to be able to satisfy any remaining requirements. The outcome of this self-assessment process will be a Pathway to Graduation Plan prepared by the student in consultation with the examiner of the course.

A second component of this course will require students to show that they can write a Career Episode Report that demonstrates their achievement of two of the specified attributes and capabilities. To do this successfully students will have to demonstrate they are able to accurately reflect on their experience and that they ha

The Workplace Portfolio course and the Industry Project course are designed to enable students to develop Portfolios that will enable them to obtain credit for their achievements during their employment as an Engineering Technologist. The courses are:

- [ENG8311 Workplace Portfolio](#) (2 units)
- [ENG8308 Industry Project](#) (2 units).

The core course [ENM1600 Engineering Mathematics](#) is designed to give students the enabling skills in mathematics and problem solving needed to undertake the Technical courses in their program.

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During the preparation of their Pathway to Graduation Plan students must nominate how they are going to demonstrate achievement of the objectives of each of the **Technical Courses** defined for their specialisation and listed in this Schedule. They may do this by studying a course or by demonstrating achievement of the objectives of the course in their Workplace Portfolio. A student may study a maximum of **five** of the **Technical Courses** listed in this Schedule and the remaining Schedule B courses are addressed through the [ENG8311 Workplace Portfolio](#).

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Students must complete the practice course allocated in the recommended enrolment pattern for their specialisation (0 units).

## Required time limits

Students have a maximum of 5 years to complete this program.

## Specialisation

The specialisation study provides students with knowledge and skills in a specific discipline. The seven specialisation study areas in the Master of Engineering Practice are:

- Civil Engineering
- Electrical and Electronic Engineering
- Environmental Engineering
- Mechanical Engineering
- Power Systems Engineering
- Public Works and Infrastructure
- Structural Engineering

## IT requirements

Access to an up-to-date computer is necessary. On-campus students can access appropriately equipped laboratories, but should consider acquisition of their own computer. External students should be able to access a computer with the following [minimum standards](#) as advised by the University. All students should have access to email and the Internet via a computer running the latest versions of Internet web browsers such as Internet Explorer or Firefox. The University has a wireless network for on-campus students' computers. In order to take advantage of this facility and further enhance their on-campus learning environment, students should consider purchasing a notebook/laptop computer with wireless connectivity. Specialist software is required for some courses.

## Residential schools

The attendance requirement of residential schools within this degree is indicated by the following letters: R = Recommended; HR = Highly Recommended; M = Mandatory. To find out more about [residential schools](#), visit the [Residential School Schedule](#) to view specific dates for your degree, or visit the [Policy and Procedure Library](#).

Students are required to undertake practical and professional activities relevant to their program through enrolment in a Practice course in the program. Practice courses are zero unit courses that may be undertaken in either on-campus or external mode and the final grades available are Pass (P)/Fail (F) only. They are a compulsory part of the program and do not attract a student contribution charge for Australian residents or a tuition fee for international students. The recommended enrolment schedule for the relevant Practice course is shown in the Recommended Enrolment Pattern for the program in this Handbook.

Students who enrol in on-campus mode for Practice courses normally undertake a series of mandatory weekly activities and/or attend a mandatory residential school.

External students must attend a single mandatory residential school during their program to obtain experience in practical and professional activities appropriate to the program. The mandatory residential school is included in the Practice course which is conducted in Semester 3 or during the recess period in Semester 2. The dates for each mandatory residential school Practice course are shown in the [Residential School schedule](#) in this Handbook and external students should ensure they are able to attend the mandatory residential school prior to enrolling in a Practice course. Personal protective equipment is compulsory in many engineering, construction and spatial science laboratories, students should confirm the requirements before attending residential schools for Practice courses.

### **Civil Engineering**

- [CIV4908 Civil Design Practice](#)

### **Electrical and Electronic Engineering**

- [ELE3914 Electrical and Electronic Practice D](#) OR
- [ELE3915 Electrical and Electronic Practice E](#)

### **Environmental Engineering**

- [ENV3904 Environmental Engineering Practice](#)

### **Mechanical Engineering**

- [MEC3904 Mechanical Practice 4](#)

### **Power Systems Engineering**

- [ELE3914 Electrical and Electronic Practice D](#) OR
- [ELE3915 Electrical and Electronic Practice E](#)

### **Public Works and Infrastructure**

- [CIV3907 Civil Systems Practice](#) OR
- [ENV3904 Environmental Engineering Practice](#)

### **Structural Engineering**

- [CIV4908 Civil Design Practice](#)

### **Exit points**

Students 0 1

**Credit**

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## **Electrical and Electronic Engineering specialisation recommended enrolment pattern**

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.



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Specialisation: Environmental Engineering (Specialisation Study Code: 15211)

Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule C: One Practice Course</b> Students must complete the practice course.								
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## **Power Systems Engineering specialisation recommended enrolment pattern**

Students are able to enrol in any offered mode of a course (on-campus, external or online), reg











