

# ENG710 Engineering Project Resource Planning

**School:** School of Science, Technology and Engineering

2026 | Trimester 2

UniSC Moreton Bay

**BLENDED  
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

Online

**ONLINE**

You can do this course without coming onto campus, unless your program has specified a mandatory onsite requirement.

Please go to [unisc.edu.au](http://unisc.edu.au) for up to date information on the teaching sessions and campuses where this course is usually offered.

## 1. What is this course about?

### 1.1. Description

This course provides students with the insights, knowledge and skills necessary for providing professional engineering input into resource and quality management programs in an business environment. It covers project governance, quality control and assurance and organisational planning. The best practices for resource management and staff acquisition will be explored.

### 1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
<b>BLENDED LEARNING</b>			
<b>Learning materials</b> – Asynchronous weekly learning material	1hr	Week 1	12 times
<b>Seminar</b> – On campus	1hr	Week 1	3 times
<b>Tutorial/Workshop 1</b> – On campus	2hrs	Week 1	10 times
<b>ONLINE</b>			
<b>Learning materials</b> – Asynchronous weekly learning material	1hr	Week 1	12 times
<b>Seminar</b> – Online	1hr	Week 1	3 times
<b>Tutorial/Workshop 1</b> – Online	2hrs	Week 1	10 times

### 1.3. Course Topics

Topics may include:

- Project governance
- Monitoring the change control process
- Quality assurance
- Quality control
- Resource management
- Organisational planning
- Staff acquisition and team development

## 2. What level is this course?

700 Level (Specialised)

Demonstrating a specialised body of knowledge and set of skills for professional practice or further learning. Advanced application of knowledge and skills in unfamiliar contexts.

## 3. What is the unit value of this course?

12 units

## 4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES	GRADUATE QUALITIES MAPPING	PROFESSIONAL STANDARD MAPPING *
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...	Engineers Australia Stage 1 Professional Engineer Competency Standards
1 Appraise and infer the effective and efficient practices for process monitoring, quality control and assurance.	Knowledgeable	1, 1.5.e, 1.5
2 Critically analyse strategic quality control practices and their application to organisational realities.	Creative and critical thinker	2, 2.1.a, 2.1
3 Assess team dynamics and reflect on team performance improvement techniques.	Creative and critical thinker	2, 2.1.a, 2.1
4 Undertake project definition, project planning and project implementation using key tools and techniques for effective project management.	Empowered	2, 2.4.d, 2.4
5 Utilise and engage with the fundamental tools in strategic human resource management including the planning, development, implementation and evaluation of HR activities.	Empowered	2, 2.4.c, 2.4

### \* Competencies by Professional Body

CODE	COMPETENCY
<b>ENGINEERS AUSTRALIA STAGE 1 PROFESSIONAL ENGINEER COMPETENCY STANDARDS</b>	
1	Elements of competency: Knowledge and Skill Base
1.5.e	Knowledge and Skill Base - Knowledge of engineering design practice and contextual factors impacting the engineering discipline: Is aware of the fundamentals of business and enterprise management.
1.5	Knowledge and Skill Base: Knowledge of engineering design practice and contextual factors impacting the engineering discipline.
2	Elements of competency: Engineering Application Ability
2.1.a	Engineering Application Ability - Application of established engineering methods to complex engineering problem solving: Identifies, discerns and characterises salient issues, determines and analyses causes and effects, justifies and applies appropriate simplifying assumptions, predicts performance and behaviour, synthesises solution strategies and develops substantiated conclusions.
2.4.d	Engineering Application Ability - Application of systematic approaches to the conduct and management of engineering projects: Proficiently applies basic systems engineering and/or project management tools and processes to the planning and execution of project work, targeting the delivery of a significant outcome to a professional standard.

CODE	COMPETENCY
2.4.c	Engineering Application Ability - Application of systematic approaches to the conduct and management of engineering projects: Accommodates relevant contextual issues into all phases of engineering project work, including the fundamentals of business planning and financial management
2.1	Engineering Application Ability: Application of established engineering methods to complex engineering problem solving.
2.4	Engineering Application Ability: Application of systematic approaches to the conduct and management of engineering projects.

## 5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

### 5.1. Pre-requisites

Enrolled in GC006, GD006 or MC006

### 5.2. Co-requisites

Not applicable

### 5.3. Anti-requisites

Not applicable

### 5.4. Specific assumed prior knowledge and skills (where applicable)

Not applicable

### 5.5. Microcredential Information

Not applicable

## 6. How am I going to be assessed?

### 6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

### 6.2. Details of early feedback on progress

Early feedback will be provided through completion of weekly activities in workshops. Furthermore, feedback on each assessment will be provided which will be used to help with the following assessment.

### 6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Case Study	Individual	20%	Min. 1200 words.	Week 3	Online Assignment Submission with plagiarism check
All	2	Written Piece	Individual	20%	Min.1500 words	Week 6	Online Assignment Submission with plagiarism check
All	2a	Written Piece	Group	25%	Min. 2500 words	Week 9	Online Assignment Submission with plagiarism check
All	2b	Oral and Written Piece	Group	35%	15 minutes plus min. 3000 words	Week 12	Online Assignment Submission with plagiarism check

**All - Assessment Task 1:** Strategy Case Study

<b>GOAL:</b>	Perform analysis and formulation of strategy on an engineering project case study; demonstrate knowledge of strategic planning concepts.	
<b>PRODUCT:</b>	Case Study	
<b>AUTHORSHIP STATEMENT:</b>		
<b>FORMAT:</b>	Written report.	
<b>CRITERIA:</b>	<b>No.</b>	<b>Learning Outcome assessed</b>
	1 Analyse a project and provide strategic insights.	4
	2 Formulate a strategic direction for an engineering project based on formulation concepts developed in the course.	2 4
	3 Provide strategic management insights in project definition and planning.	4
<b>GENERIC SKILLS:</b>	Communication, Problem solving, Applying technologies	

**All - Assessment Task 2:** Written Piece

<b>GOAL:</b>	Written analysis of a project strategy of a technology project, innovation management, the governance of the technology, and organisational design for a project.	
<b>PRODUCT:</b>	Written Piece	
<b>AUTHORSHIP STATEMENT:</b>		
<b>FORMAT:</b>	Written analysis of strategy, innovation, and control processes.	
<b>CRITERIA:</b>	<b>No.</b>	<b>Learning Outcome assessed</b>
	1 Critical analysis of strategic quality control practices and their application to organisational realities	2
	2 Undertake project definition, project planning and project implementation using key tools and techniques for effective project management.	4
	3 Utilisation and engagement with the fundamental tools in strategic human resource management including the planning, development, implementation and evaluation of HR activities.	5
	4 Appraisal and inference of the effective and efficient practices for process monitoring, quality control and assurance.	1
<b>GENERIC SKILLS:</b>	Communication, Organisation, Information literacy	

### All - Assessment Task 2a: Report

<b>GOAL:</b>	Continuation of analysis of a project, emphasizing: quality control plan; and supplier management plan.																			
<b>PRODUCT:</b>	Written Piece																			
<b>AUTHORSHIP STATEMENT:</b>																				
<b>FORMAT:</b>	Research report																			
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<b>GENERIC SKILLS:</b>	Communication, Problem solving, Applying technologies																			

### All - Assessment Task 2b: Final Oral and Written Piece

<b>GOAL:</b>	Presentation of a project plan proposal, integrating the concepts developed in the course. This builds on the work done in the previous assessment, and further includes a financial plan, contracting approach, a project monitoring / control plan, and any other tools relevant to the selected topic.																			
<b>PRODUCT:</b>	Oral and Written Piece																			
<b>AUTHORSHIP STATEMENT:</b>																				
<b>FORMAT:</b>	Practical problem solving and presentation on organisational planning and/or strategic human resources techniques and activities.																			
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<b>GENERIC SKILLS:</b>	Communication, Collaboration, Problem solving, Information literacy																			

## 7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

## 8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

### 8.1. Prescribed text(s) or course reader

There are no required/recommended resources for this course.

### 8.2. Specific requirements

Not applicable

## 9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

## 10. What administrative information is relevant to this course?

### 10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

### 10.2. Assessment: Additional Requirements

#### **Eligibility for Supplementary Assessment**

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

- (a) The final mark is in the percentage range 47% to 49.4%; and
- (b) The course is graded using the Standard Grading scale

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying: - The final mark is in the percentage range 47% to 49.4% - The course is graded using the Standard Grading scale - You have not failed an assessment task in the course due to academic misconduct

### 10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:

- (a) One day: deduct 5%;
- (b) Two days: deduct 10%;
- (c) Three days: deduct 20%;
- (d) Four days: deduct 40%;
- (e) Five days: deduct 60%;
- (f) Six days: deduct 80%;
- (g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:

- Less than 15 minutes: No penalty
- From 15 minutes to 30 minutes: 20% penalty
- More than 30 minutes: 100% penalty

#### 10.4. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

#### 10.5. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

#### 10.6. General Enquiries

For course-specific questions, contact your teaching staff or Course Coordinator.

For other enquiries or to access support, please contact Student Central:

- [UniSC Student Central](#)
- [UniSC Adelaide Student Central](#)