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General Information

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50 Waterloo Rd
By appointment via email

Credit points
10

Prerequisites
Admission to MEngMgt or ((ENGG3000 or ENGG300) and ENGG3050)

Corequisites

Co-badged status

Unit description
This unit will provide students with learning modules about structuring and commissioning engineering contracts to deliver and procure engineering outcomes. Students will develop a working knowledge of contract administration and build a fundamental understanding of commercial engineering contracts and procurement. The unit is designed to cover all engineering disciplines across different stages of the career.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes
On successful completion of this unit, you will be able to:

ULO1: Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.

ULO2: Interpret the scope and meaning of contract documents for the delivery of engineering projects.
ULO3: Analyse and assess tenders, articulate fundamental knowledge of contract law, identify potential risks associated with the engineering projects.

ULO4: Conduct cost estimation and tendering processes from a Contractors perspective.

General Assessment Information

Case study

Assessment Type ¹: Case study/analysis

Indicative Time on Task ²: 12 hours

Due: Weeks 2, 4, 6, 8, and 10

Weighting: 20%

Case study on engineering procurement

On successful completion you will be able to:

• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.

• Interpret the scope and meaning of contract documents for the delivery of engineering projects.

• Analyse and assess tenders, articulate fundamental knowledge of contract law, identify potential risks associated with the engineering projects.

Final Project

Assessment Type ¹: Project

Indicative Time on Task ²: 30 hours

Due: Week 13

Weighting: 40%

Final project report based on Engineering procurement principles

On successful completion you will be able to:

• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.

• Interpret the scope and meaning of contract documents for the delivery of engineering projects.

• Analyse and assess tenders, articulate fundamental knowledge of contract law, and identify potential risks associated with the engineering projects.
• Conduct cost estimation and tendering processes from a Contractors perspective

Midterm group project
Assessment Type ¹: Project
Indicative Time on Task ²: 14 hours
Due: **Week 7**
Weighting: **30%**

Group project based on procurement case scenario
On successful completion you will be able to:
• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.
• Interpret the scope and meaning of contract documents for the delivery of engineering projects.
• Analyse and assess tenders, articulate fundamental knowledge of contract law, and identify potential risks associated with the engineering projects.
• Conduct cost estimation and tendering processes from a Contractors perspective.

Active Engagement
Assessment Type ¹: Participatory task
Indicative Time on Task ²: 6 hours
Due: **Week 1 to 12**
Weighting: **10%**
Participation marks for attending and contributing in tutorials

On successful completion you will be able to:
• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.
• Interpret the scope and meaning of contract documents for the delivery of engineering projects.
• Analyse and assess tenders, articulate fundamental knowledge of contract law, and identify potential risks associated with the engineering projects.
• Conduct cost estimation and tendering processes from a Contractors perspective.
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Project</td>
<td>40%</td>
<td>No</td>
<td>Week 13</td>
</tr>
<tr>
<td>Case study</td>
<td>20%</td>
<td>No</td>
<td>Week 2, 4, 6, 8, and 10</td>
</tr>
<tr>
<td>Midterm group project</td>
<td>30%</td>
<td>No</td>
<td>Week 7</td>
</tr>
<tr>
<td>Active Engagement</td>
<td>10%</td>
<td>No</td>
<td>Week 1 to 12</td>
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</table>

Final Project
Assessment Type 1: Project
Indicative Time on Task 2: 30 hours
Due: Week 13
Weighting: 40%

Final project report based on Engineering procurement principles

On successful completion you will be able to:

• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.
• Interpret the scope and meaning of contract documents for the delivery of engineering projects.
• Analyse and assess tenders, articulate fundamental knowledge of contract law, identify potential risks associated with the engineering projects.
• Conduct cost estimation and tendering processes from a Contractors perspective.
Case study

Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 12 hours
Due: Week 2, 4, 6, 8, and 10
Weighting: 20%

Case study on engineering procurement

On successful completion you will be able to:

• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.
• Interpret the scope and meaning of contract documents for the delivery of engineering projects.
• Analyse and assess tenders, articulate fundamental knowledge of contract law, identify potential risks associated with the engineering projects.

Midterm group project

Assessment Type 1: Project
Indicative Time on Task 2: 14 hours
Due: Week 7
Weighting: 30%

Group project based on procurement case scenario

On successful completion you will be able to:

• Evaluate the commercial viability of engineering projects and decide an appropriate procurement strategy for a particular project.
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Indicative Time on Task: 6 hours
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Participation marks for attending and contributing in tutorials

On successful completion you will be able to:

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• Conduct cost estimation and tendering processes from a Contractors perspective.

1 If you need help with your assignment, please contact:
• the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
• the Writing Centre for academic skills support.

2 Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources


Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture /Content / Topic</th>
<th>Chapter Ref</th>
<th>HBR Case Study</th>
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https://unitguides.mq.edu.au/unit_offerings/156909/unit_guide/print
<table>
<thead>
<tr>
<th></th>
<th>The Procurement function and its role in a business. Measurement of Procurement Success, KPI’s</th>
<th>Chapter 1</th>
<th>Boeing Australia Assessing the merits of implementing an eProcurement System Bailey et al</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Strategic Procurement and Supply Chain Management.</td>
<td>Chapter 2</td>
<td>Meisterclean – Turning Supply chain into competitive advantage Bailey et al</td>
</tr>
<tr>
<td>3</td>
<td>Price and total cost of ownership (TCO)</td>
<td>Chapter 9</td>
<td>Building Deep Supplier Relationships Ch 10, 11, &amp;12 Leeser</td>
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<tr>
<td>4</td>
<td>Preparation of procurement requirements. Compiling the contract conditions, developing commercial terms. Preparing technical specifications</td>
<td>Ch 3, 5, 6, 7, 8, 9 &amp; 9 Leeser</td>
<td>Boeing Strategic Initiative RM Supply Chain Risk Bailey et al</td>
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<tr>
<td>5</td>
<td>Selection of suppliers. Bidding process.</td>
<td>Ch 10, 11, &amp;12 Leeser</td>
<td>Bailey et al</td>
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<tr>
<td>6</td>
<td>Sourcing Strategies and Relationships</td>
<td>Chapter 8</td>
<td>Meisterclean – Turning Supply chain into competitive advantage Bailey et al</td>
</tr>
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<td></td>
<td>Assignment 1 due</td>
<td></td>
<td>Building Deep Supplier Relationships</td>
</tr>
<tr>
<td>7</td>
<td>Project Procurement and Risk</td>
<td>Chapter 11</td>
<td>Boeing Strategic Initiative RM Supply Chain Risk Bailey et al</td>
</tr>
<tr>
<td>8</td>
<td>Contract Management</td>
<td>Chapter 19</td>
<td>Within Slides Bailey et al</td>
</tr>
<tr>
<td>9</td>
<td>Government Projects – Guest Lecturer</td>
<td></td>
<td>Quality Management in the oil industry: How BP greases its machinery for frictionless sourcing. Bailey et al</td>
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<tr>
<td>10</td>
<td>Quality Management</td>
<td>Chapter 5</td>
<td>Quality Management in the oil industry: How BP greases its machinery for frictionless sourcing. Bailey et al</td>
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</tbody>
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https://unitguides.mq.edu.au/unit_offerings/156909/unit_guide/print
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Assessment Procedure
- Complaints Resolution Procedure for Students and Members of the Public
- Special Consideration Policy

Students seeking more policy resources can visit Student Policies (https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit Policy Central (https://policies.mq.edu.au) and use the search tool.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/admin/other-resources/student-conduct

Results

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au
Academic Integrity
At Macquarie, we believe academic integrity — honesty, respect, trust, responsibility, fairness and courage — is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free online writing and maths support, academic skills development and wellbeing consultations.

Student Support
Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

The Writing Centre
The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- Workshops
- Chat with a WriteWISE peer writing leader
- Access StudyWISE
- Upload an assignment to Studiosity
- Complete the Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian

Student Services and Support
Macquarie University offers a range of Student Support Services including:

- IT Support
- Accessibility and disability support with study
- Mental health support
- Safety support to respond to bullying, harassment, sexual harassment and sexual assault
- Social support including information about finances, tenancy and legal issues
- Student Advocacy provides independent advice on MQ policies, procedures, and processes

Student Enquiries
Got a question? Ask us via AskMQ, or contact Service Connect.
IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

Guest lecturers are dependent on their availability.

EA Competency

The Masters of Engineering Management is not EA accredited and therefore not applicable.