



CIVL3401

Construction Management

Session 2, In person-scheduled-weekday, North Ryde 2026

School of Engineering

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General Information

Unit convenor and teaching staff

Simon Clark

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Credit points

10

Prerequisites

130cp at 1000 level or above and (CIVL1001 or MECH1001)

Corequisites

Co-badged status

Unit description

The aim of this unit is to equip you with the essential knowledge to effectively address the diverse aspects of construction project management. This includes activities such as planning, organizing, coordinating, monitoring, controlling, and reporting at various stages of construction projects. You will become familiar with contemporary concepts in construction management, encompassing sustainability, environmental considerations, and economic viability in construction processes. You will learn and practice a range of skills including project management techniques (planning, workforce motivation, cost control, equipment management), business management (project procurement, estimation, tendering, competitive bidding, budgetary control, economic evaluation), and administration and company management (organizational structure, market planning, business development, construction logistics, risk assessment, information resources).

Learning in this unit will enhance your understanding of global challenges identified by the United Nations Sustainable Development Goals ([UNSDGs](#)) Industry, Innovation and Infrastructure; Sustainable Cities and Communities.

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: Demonstrate in-depth understanding of modern construction management

ULO2: Identify and compare different project delivery methods and assess the

associated risks

ULO3: Estimate different construction timelines and required budgets

ULO4: Explain estimating and tendering principles and practice in different construction projects

ULO5: Differentiate and explain different contractual arrangements in the construction industry

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
Preliminary Design Presentation	20%	No	18/09/2026	Individual	Yes	Open
Final Bid Document	40%	No	06/11/2026	Individual	Yes	Open
Final Exam	40%	No	Exam Period	Individual	No	Observed

Preliminary Design Presentation

Assessment Type ¹: Presentation task

Indicative Time on Task ²: 16 hours

Due: **18/09/2026**

Weighting: **20%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open

As part of your preparation for your group project on the construction management of different civil engineering infrastructures, you and your team will prepare a Preliminary Design based on a specification from a "client" and share the design in the form of a group presentation.

On successful completion you will be able to:

- Demonstrate in-depth understanding of modern construction management
- Identify and compare different project delivery methods and assess the associated risks
- Estimate different construction timelines and required budgets
- Explain estimating and tendering principles and practice in different construction projects
- Differentiate and explain different contractual arrangements in the construction industry

Final Bid Document

Assessment Type ¹: Written Submission

Indicative Time on Task ²: 28 hours

Due: **06/11/2026**

Weighting: **40%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open

Your Bid Document will summarise you and your teams work on the design and construction plan for a major infrastructure development.

On successful completion you will be able to:

- Demonstrate in-depth understanding of modern construction management
- Identify and compare different project delivery methods and assess the associated risks
- Estimate different construction timelines and required budgets
- Explain estimating and tendering principles and practice in different construction projects
- Differentiate and explain different contractual arrangements in the construction industry

Final Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 28 hours

Due: **Exam Period**

Weighting: **40%**

Groupwork/Individual: Individual

Short extension ³: No

AI Approach: Observed

You will undertake a final examination during the formal examination period.

On successful completion you will be able to:

- Demonstrate in-depth understanding of modern construction management
- Identify and compare different project delivery methods and assess the associated risks
- Estimate different construction timelines and required budgets
- Explain estimating and tendering principles and practice in different construction projects
- Differentiate and explain different contractual arrangements in the construction industry

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
- Academic Success 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.

³ An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

Delivery and Resources

The unit consists a collaborative construction project with an interim bid presentation and a final bid document. Students work in small teams to complete the project. Workshops are held on either Mondays at 1pm or Wednesdays at 12 noon in room G75. Please only come to the workshop you have been assigned to.

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 connect.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/>

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [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 the [Service Connect Portal](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

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.

Unit information based on version 2026.03 of the [Handbook](#)