



CIVL8205

Advanced 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 simon.clark@mq.edu.au
Credit points 10
Prerequisites 40cp at 6000 level or above
Corequisites
Co-badged status
Unit description This unit spans key areas of construction management including techno-commercial assessment, budgeting, floating tenders, bidding, and project quality management such as planning and execution, resource allocation plans, control and monitoring, and continuous improvement. The emphasis is on learning the latest industry trends, adopting innovative practices, and embracing digital transformation with a focus on sustainable construction practices. Students will learn to incorporate environmentally friendly practices such as optimising energy efficiency, utilising eco-friendly materials, and adopting green construction techniques to minimise waste and the overall environmental impact of construction projects. Learning in this unit enhances student understanding of global challenges identified by the United Nations Sustainable Development Goals (UNSDGs) Industry, Innovation and Infrastructure; Sustainable Cities and Communities; Responsible Consumption and Production

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:** Utilize deep understanding of construction management practices, tools and methodologies to optimize project delivery, enhance productivity, and minimize risks.
- ULO2:** Apply the principles, norms, and accountabilities of sustainable construction

practices to reduce the environmental impact of the project

ULO3: Design and execute project management plans by integrating various management tools for safety delivering complex construction projects

ULO4: Effectively utilize and oversee information resources to facilitate the successful execution of construction project management for complex projects in a professional manner.

ULO5: Showcase organized self-management and professional conduct while actively participating as a valuable team member and demonstrating effective team leadership.

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
Special topic investigation and presentation	20%	No	During the Workshops	Individual	No	Observed
Final Exam	30%	No	Exam Period	Individual	No	Observed
Construction Journal	50%	No	06/11/2026	Individual and Group	Yes	Open

Special topic investigation and presentation

Assessment Type ¹: Presentation task

Indicative Time on Task ²: 20 hours

Due: **During the Workshops**

Weighting: **20%**

Groupwork/Individual: Individual

Short extension ³: No

AI Approach: Observed

You will choose a special topic to investigate construction management practices and relevant subject areas, and present the details and outcome of the investigation.

On successful completion you will be able to:

- Utilize deep understanding of construction management practices, tools and methodologies to optimize project delivery, enhance productivity, and minimize risks.
- Apply the principles, norms, and accountabilities of sustainable construction practices to reduce the environmental impact of the project
- Design and execute project management plans by integrating various management tools for safety delivering complex construction projects

- Effectively utilize and oversee information resources to facilitate the successful execution of construction project management for complex projects in a professional manner.

Final Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 30 hours

Due: **Exam Period**

Weighting: **30%**

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:

- Utilize deep understanding of construction management practices, tools and methodologies to optimize project delivery, enhance productivity, and minimize risks.
- Apply the principles, norms, and accountabilities of sustainable construction practices to reduce the environmental impact of the project
- Design and execute project management plans by integrating various management tools for safety delivering complex construction projects
- Effectively utilize and oversee information resources to facilitate the successful execution of construction project management for complex projects in a professional manner.
- Showcase organized self-management and professional conduct while actively participating as a valuable team member and demonstrating effective team leadership.

Construction Journal

Assessment Type ¹: Portfolio

Indicative Time on Task ²: 40 hours

Due: **06/11/2026**

Weighting: **50%**

Groupwork/Individual: Individual and Group

Short extension ³: Yes

AI Approach: Open

You will work in a small team to design and build a modular building. A written journal will be kept by your team detailing the process followed for both design and build stages. Oral feedback will be provided on a weekly basis. You and your team will compile your weekly journals into a final group report. Your individual mark is based on your team performance and the weighted group mark.

On successful completion you will be able to:

- Utilize deep understanding of construction management practices, tools and methodologies to optimize project delivery, enhance productivity, and minimize risks.
- Apply the principles, norms, and accountabilities of sustainable construction practices to reduce the environmental impact of the project
- Design and execute project management plans by integrating various management tools for safety delivering complex construction projects
- Effectively utilize and oversee information resources to facilitate the successful execution of construction project management for complex projects in a professional manner.
- Showcase organized self-management and professional conduct while actively participating as a valuable team member and demonstrating effective team leadership.

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. Students work in small teams to complete the project. A group journal will be kept each workshop and submitted at the end of the unit. Workshops are held on Tuesdays at 3pm 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 \(https://policies.mq.edu.au\)](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 \(https://students.mq.edu.au/support/study/policies\)](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 \(https://policies.mq.edu.au\)](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](#)