

BLDG 4007 MODERN CONSTRUCTION PROJECTS

Credit Points 10

Legacy Code 301159

Coordinator Matt Stevens (<https://directory.westernsydney.edu.au/search/name/Matt Stevens/>)

Description In this unit, accelerating changes in the way construction projects are procured and delivered will be studied. Innovations relating to pre-site construction and to productivity measurement will be evaluated. Quality assurance and risk management will be considered in the light of new project delivery systems. Ways to improve end user satisfaction with construction project delivery will be addressed.

School Eng, Design & Built Env

Discipline Construction Engineering

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 4 subject

Assumed Knowledge

An understanding of standard building processes and familiarity with how they impact on project delivery.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Analyse the available indices that are used to measure construction productivity
2. Construct a case for improving project efficiency by means of industrialising construction projects
3. Examine ways to address quality assurance in a globalised construction market
4. Review the impact of the need for buildings to be adaptable over their useful lifetime
5. Theorise about the way to ensure that end users receive economic, environmental and social value from their buildings

Subject Content

Measuring construction productivity

Pre-construction effectiveness indicators

Fabrication versus assembly

Quality assurance in globalised construction

Evidence-based decision making

Durability, adaptability and sustainability

Maintaining public confidence in construction project delivery

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Quiz	20 questions - 45 minutes	20	N	Individual	N
Case Study	1000 words	30	N	Individual	N
Essay	500 words	20	N	Individual	N
Report	1000 words per student	30	N	Group	N

Teaching Periods

Autumn (2025)

Penrith (Kingswood)

On-site

Subject Contact Matt Stevens (<https://directory.westernsydney.edu.au/search/name/Matt Stevens/>)

[View timetable](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG4007_25-AUT_KW_1#subjects) (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG4007_25-AUT_KW_1#subjects)

Parramatta - Victoria Rd

On-site

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