



Unit Outline (Higher Education)

Institute / School: Institute of Innovation, Science & Sustainability

Unit Title: ENGINEERING CONTRACTS AND PROCUREMENT

Unit ID: ENGIN5206

Credit Points: 15.00

Prerequisite(s): Nil

Co-requisite(s): Nil

Exclusion(s): Nil

ASCED: 039999

Description of the Unit:

This unit covers the preparation of engineering contracts to deliver and procure engineering outcomes. Students will develop a knowledge of relevant contract law, market analysis, tenders and work breakdown structure. Engineers in most fields will have to work with contracts at some point in their career thus the content of this unit will be directly applicable to everyone.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of supplementary assessment

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Learning Outcomes:
Knowledge:

- K1.** Evaluate the critical factors influencing contract development and recommend the best conditions.
- K2.** Infer the importance of work breakdown structure in preparation of contracts.

Skills:

- S1.** Analyse the current market situation and make appropriate predictions relevant to proposed projects.
- S2.** Prioritize planned activities and manage the cash flow throughout the project.

Application of knowledge and skills:

- A1.** Reflect on the development of competitive contracts which ensure procurement and stakeholder satisfaction.
- A2.** Utilise the role of managers for effective commercial management of projects.

Unit Content:

Topics will include:

- Commercial management of engineering projects
- Role and responsibilities of managers
- Contract law
- Market analysis
- Planning procurement options
- Development of contracts
- Tenders and work breakdown structure
- Cash flow management

Learning Task and Assessment:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1-2, S1-2, A1-2	Problem based questions and design tasks pertinent to commercial management of projects	Assignment	20 - 40%
K1-2, S1-2, A1-2	Work breakdown structure and tenders	Assignment	20 - 40%
K1-2, S1-2, A1-2	A combination of quantitative and qualitative problems.	Examination	40 - 60%

Adopted Reference Style:

Other (IEEE)

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)