

# ENGR 2009 ENGINEERING MANAGEMENT FOR ENGINEER ASSOCIATES (WSTC ASSOC D)

**Credit Points** 10

**Legacy Code** 700109

**Coordinator** Bader Unnisa Mehdi (<https://directory.westernsydney.edu.au/search/name/Bader Unnisa Mehdi/>)

**Description** The subject will provide the knowledge and skills to enable students to support the achievement of organisational goals through applying knowledge of environment and internal culture. The subject evaluates planning processes and goal setting to achieve superior performance and compares alternative approaches to motivation of work team members. Students will consider types of managerial communications and their associated communications channels in achieving best professional practice.

**School** Eng, Design & Built Env

**Discipline** Other Engineering And Related Technologies

**Student Contribution Band** HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

## Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

## Learning Outcomes

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

1. Manage, integrate and control project time, cost, quality and safety and health.
2. Prepare for project activity planning, time scheduling and project budget.
3. Allocate and balance resources, labour and cash flow within time and cost constraints.
4. Monitor and control the execution of a project.
5. Perform contract and job-site administration.

## Subject Content

This unit provides the students with the engineering project management skills and knowledge. It will cover contemporary practices in project planning, costing, scheduling, resourcing, monitoring, controlling, contract administration and job-site administration. The detailed contents are described as following:

1. Introduction to project management (Kloppenborg, 2009)
2. Project selection and prioritization (Kloppenborg, 2009)
3. Organizational capability: structure, culture and roles (Kloppenborg, 2009)
4. Defining scope and constructing work breakdown structures (WBS) (Kloppenborg, 2009)
5. Scheduling projects 1: network technology (Kloppenborg, 2009)

6. Scheduling projects 2: Gantt Chart and MS Project (Kloppenborg, 2009)
7. Resourcing projects 1: Resource allocation (Kloppenborg, 2009)
8. Resourcing projects 2: Compress the project schedule (Kloppenborg, 2009)
9. Budgeting projects 1: cost planning and cost estimating (Kloppenborg, 2009)
10. Budgeting projects 2: cost budgeting and cost control (Kloppenborg, 2009)
11. Project supply chain management (Kloppenborg, 2009)
12. Determining project progress and results Project control (Kloppenborg, 2009)
13. Job-site administration (Gould and Joyce, 2009)

## 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
Assignment – Report	2,000 words	30	N	Individual
Online Quizzes x 10	30 minutes each	20	N	Individual
Final Exam	2 hours	50	N	Individual

## Prescribed Texts

- Gould, F. and Joyce, N. (2009). Construction Project Management (3rd ed.). New Jersey: Pearson Education, Inc.
- Kloppenborg, T.J. (2009). Contemporary Project Management. USA: South-Western Cengage Learning.

## Teaching Periods

### Quarter 3 (2022)

#### Nirimba Education Precinct

##### Composite

**Subject Contact** Bader Unnisa Mehdi (<https://directory.westernsydney.edu.au/search/name/Bader Unnisa Mehdi/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=ENGR2009\\_22-Q3\\_BL\\_C#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR2009_22-Q3_BL_C#subjects))

### Quarter 3 (2023)

#### Nirimba Education Precinct

##### Hybrid

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