

Unit Outline (Higher Education)

Institute / School: Institute of Innovation, Science & Sustainability

Unit Title: ASSET MANAGEMENT TECHNIQUES

Unit ID: MREGC5004

Credit Points: 15.00

Prerequisite(s): Nil

Co-requisite(s): Nil

Exclusion(s): Nil

ASCED: 039999

Description of the Unit:

This unit covers asset management including relevant international standards such as ISO55000, ISO55002 and ISO55010 to support the application of the ISO55001 requirements. It also covers the Asset Management System (documented system) and the development of Strategic Asset Management Plan (SAMP), Asset Management Plan (AMP) in-line with ISO55001 standard and the application of Reliability Centred Maintenance processes. Analysis of costs, budgets and risks, Logistic Support and Inventory required for maintenance management and requirements of Asset Information Systems are also covered in this unit.

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	■	■	■	■	■	■
Intermediate	■	■	■	■	✓	■
Advanced	■	■	■	■	■	■

Learning Outcomes:

On successful completion of the unit the students are expected to be able to:

Knowledge:

- K1.** Describe the scope of Asset Management as per international standard.
- K2.** Explain the techniques used in asset management.
- K3.** Recognise and describe processes used to solving a variety of real-life asset management problems.

Skills:

- S1.** Assess SAMP and AMP in-line with the international standard.
- S2.** Develop and implement SAMP and AMP in-line with the international standard.

Application of knowledge and skills:

- A1.** Apply requirements of international standard in developing SAMP & AMP.
- A2.** Evaluate and reduce gaps in SAMP & AMP.
- A3.** Solve real life asset management problems for reducing costs and risks and enhancing performance.

Unit Content:

This unit covers Asset management standard in line with ISO55000, ISO55002 and ISO55010 to support the application of the ISO55001 requirements.

Topics may include:

- Introduction to Asset Management.
- ISO5500x series of standards.
- Reliability Centred Maintenance (RCM).
- Life Cycle Costing, budgeting and risk applicable to asset management.
- Logistic support and inventory management.
- Assets and Asset Information System.
- Equipment Replacement, Reliability, Availability and Maintainability and KPI.
- Maintenance organisation and budget.

Learning Task and Assessment:

This 15 CP online unit at postgraduate level requires a minimum time commitment of 150 hours of study. Assessments need to be submitted online in assessment submission area allocated for each assessment.

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1-K2-K3-S1-S2-A1-A2-A3	Report of review or development of Strategic Asset Management Plan.	Report	20% - 40%
K1-K2-K3-S1-S2-A1-A2-A3	Analysis and report of Asset Management Plan.	Analysis and report	40% - 50%
K1-K2-K3-S1-S2-A1-A2-A3	Review of online posts and discussion.	Online discussion	10% - 20%

Adopted Reference Style:

Other (IEEE)

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

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