

Liverpool John Moores University

Title: Asset Management
Status: Definitive
Code: **7001ENGEAT** (117634)
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering
Teaching School/Faculty: EA Technology

| Team | Leader |
|--------------------|--------|
| Christian Matthews | Y |

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 21
Total Learning Hours: 100 **Private Study:** 79

Delivery Options

Course typically offered: Non Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 12 |
| Tutorial | 6 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-------------|---------------|---------------|
| Exam | Exam | | 70 | 3 |
| Essay | Essay | | 30 | |

Aims

To give an understanding of the issues, techniques and solutions currently being employed to manage assets in the power industry

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply the principle of whole life asset management to problems in the power distribution industry.
- 2 Demonstrate a thorough knowledge of PAS 55 (Part 1 & 2) and the PAS 55 accreditation process
- 3 Justify expenditure according to a formalised investment process. Judge when to invest and what to invest in
- 4 Recognise the conflicting priorities of stakeholder groups.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

| | | | | |
|----------------------|---|---|---|---|
| Exam | 1 | 2 | | |
| Case study exercises | 1 | 2 | 3 | 4 |

Outline Syllabus

Business drivers, conflicting requirements of stakeholders, asset owner/manager drivers, regulatory perspective and customer expectations.

BSI PAS 55:2008 Background – Policy, strategy, objectives and plans.

Asset management enablers – Structure, authority, training, competence, communication and AM Systems.

Condition based risk management – Modern non-invasive asset management PAS 55 implementation – Lifecycle, tools and equipment

Performance assessment, practical application, improvement and review of asset management tools

Learning Activities

Lectures supported by tutorials and case studies.

Notes

This level seven module is delivered in a block release format and will require full-time attendance from all students for the duration of the scheduled delivery period.

The module introduces the principles of asset management in line with the principles of PAS55:2008. This standard is being adopted both in the UK and internationally as a model for business excellence in asset management. The module looks into the effective management of assets which is fundamental to the success of an asset

intensive business. This module has been designed to provide students with the knowledge to apply modern techniques, principles and processes underpinned by real life case studies and debate with industry experts.