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Title: Engineering Practice 1
 Status: Definitive
 Code: **4509ENGIYO** (120279)
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Owning School/Faculty: Maritime and Mechanical Engineering
 Teaching School/Faculty: Maritime and Mechanical Engineering

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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 96

Total Learning Hours: 200 **Private Study:** 104

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	12
Practical	24
Tutorial	12
Workshop	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Workshop Practice	25	
Portfolio	AS2	Personal Development	15	
Portfolio	AS3	Laboratory Logbook	25	

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS4	Formal Laboratory Report	25	
Self Awareness Statement	AS5	Bronze WoW Report	10	

Aims

This module aims to introduce students to a range of standard engineering practices.

Learning Outcomes

After completing the module the student should be able to:

- 1 Safely carry out a range of basic workshop procedures using standard processes.
- 2 Demonstrate their commitment to undertake the on-going personal development required to become a professional engineer.
- 3 Carry out an experimental procedure in a range of different engineering disciplines.
- 4 Process data collected during an experiment, and produce a formal written report with conclusions.

Learning Outcomes of Assessments

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

Workshop Practice	1
Personal Development	2
Laboratory Logbook	3
Formal Laboratory Report	4
Bronze WoW Award	2

Outline Syllabus

The list below provides an indicative list of topics which may be covered in this module:

Workshop

- *Practical workshop skills*
- *Reading engineering drawings*
- *Tolerances & fits*
- *Measurement*

Personal Development

- *World of Work: Bronze Award*
- *Residential Trip*
- *Environmental & ethical responsibilities*
- *Health & safety*
- *Team working*
- *Introduction to research skills*
- *Professional body requirements*

Experimental Methods

- *Report writing*
- *Handling experimental data*
- *Graphical representation*
- *Errors*
- *Analysis of results, and the formulation of conclusions*

Experimental Practice

- *Complete a series of experiments, keeping a logbook to record notes, measurements and observations.*

Learning Activities

Laboratory experiments, tutorials, online tests

Notes

The personal development portion of the module is assessed on a pass/fail basis. Students must complete the assessment exercises to a satisfactory standard in order to achieve a pass grade in this module.