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Title: Engineering Practice 1  
 Status: Definitive  
 Code: **4106MAN** (122208)  
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Owning School/Faculty: Engineering  
 Teaching School/Faculty: Engineering

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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 24

**Total Learning Hours:** 200      **Private Study:** 176

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	6
Practical	12
Tutorial	6

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Work based project	40	
Portfolio	AS2	Laboratory Logbook	25	
Report	AS3	Formal Laboratory Report	25	
Future Focus e-learning task	AS4	Self Awareness Statement	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 Demonstrate a commitment to Health and Safety and ethical responsibility.
- 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:

Work based project	1	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:*

- *Work based project based upon Health and Safety in the workplace and personal, ethical values and responsibilities of the student in addition to those of their company.*

### *Personal Development*

- *World of Work: Bronze Award*
- *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.