

Module specification

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Module Code	ENG4D5
Module Title	Work Based Learning
Level	4
Credit value	20
Faculty	FACE
HECoS Code	100184
Cost Code	GAME
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
FdEng Industrial Engineering (Mechanical) FdEng Industrial Engineering (Electrical) BEng (Hons) Mechanical Engineering with Manufacture BEng (Hons) Electrical Engineering with Manufacture BEng (Hons) Sustainable Energy Engineering	Core

Breakdown of module hours

Learning and teaching hours	9 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	27 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	36 hrs
Placement hours	0 hrs
Guided independent study hours	164 hrs
Module duration (Total hours)	200 hrs

Module aims

This module places strong emphasis on hands-on experience supported by targeted theoretical instruction. Students engage in applied investigations that demonstrate the relationship between ideas and outcomes, developing observational, measurement, and evaluative skills.

Through practical exploration, learners gain a deeper appreciation of core concepts and their relevance to professional environments.

The aim of this module is to facilitate the workplace as the primary source of learning, and will align, evidence and record 'off-the-job' learning with 'day to day' work activities, to maximise opportunities for students to develop and apply their knowledge, skills and behaviours towards professional competence. This module provides students with a foundation to develop reflective skills and habits in the context of their working practices to identify and undertake professional development commensurate with the expectations of the respective accrediting bodies.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Demonstrate the ability to operate within the learner organisation's policies and procedures in the workplace, such as H&S and cyber security (AHEP-4 C10, F10).
2	Undertake and professionally document work-based tasks to demonstrate an understanding of sector specific skills negotiated between the student, University and if applicable, workplace mentor
3	Establish and maintain a Continuing Professional Development (CPD) record, aligning with UK-SPEC, identify, participate in, and reflect upon opportunities for learning, to ensure currency with contemporary developments in professional practice (AHEP-4 C10, F18).

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Assessment 1: Portfolio

The tasks within the portfolio will be developed collaboratively with the student, academic and, if applicable, workplace mentor. The portfolio will include H&S, Security and a number of tasks that will allow the students to demonstrate their skills and understanding of topics within the workplace.

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1-3	Portfolio	2000	100%	N/A

Derogations

Credits shall be awarded by an Assessment Board for those modules in which a pass mark 40% has been achieved, with a minimum mark of 30% in each assessment element.

Learning and Teaching Strategies

Learning is primarily practical, supported by focused theoretical teaching to ensure clear understanding of underpinning principles. Students engage in applied tasks and experimental work designed to strengthen problem-solving and observational skills. Virtual learning resources enhance preparation and reflection, while small-group tutorials encourage active participation and confidence in discussing technical findings.

Welsh Elements

This module will be delivered through the medium of English; however, students have the option to submit their assessments in the medium of Welsh. While this module is not currently offered fully through Welsh, Welsh language support and guidance are available, and some learning materials or tutorial discussions may incorporate Welsh elements where appropriate. To further promote bilingual learning, all students have the opportunity to take the 20-credit *Welsh for STEM* short course, designed to develop confidence and subject-specific language skills in both English and Welsh.

Indicative Syllabus Outline

- **Professional Conduct and Workplace Compliance:**
Understanding and application of organisational policies and procedures, including Health & Safety legislation, risk assessment, safe working practices, and cyber security requirements within an engineering workplace.
- **Professional Engineer Responsibilities:**
Awareness of the legal, ethical, and professional responsibilities of an engineer, including accountability for personal conduct, compliance, and data security in a professional environment.
- **Work-Based Learning and Task Negotiation:**
Identification, negotiation, and planning of work-based topics and tasks aligned with sector-specific engineering practice, agreed between the student, University, and where applicable, a workplace mentor.
- **Professional Documentation and Reporting:**
Development of structured reports and portfolios to professionally document work-based activities, evidencing application of sector-specific skills, reflective practice, and achievement of agreed learning objectives.
- **Research and Referencing Skills:**
Application of appropriate research methods and academic referencing conventions to support professional documentation and technical reporting within a work-based context.
- **Continuing Professional Development (CPD):**
Establishment and maintenance of a CPD record, including identification of learning needs, participation in formal and informal development activities, and reflection on learning outcomes.
- **Target Setting and Career Planning:**
Self-assessment, target setting, and forward planning aligned with professional

engineering standards to support ongoing development and currency with contemporary professional practice.

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:

G. Bolton, *Reflective Practice: Writing and Professional Development*, 6th ed. London, U.K.: Sage, 2026.

Other indicative reading:

Engineering Council, "Guide to professional registration." [Online]. Available: <https://www.engc.org.uk/professional-registration/becoming-registered/guide-to-professional-registration>.

Administrative Information

For office use only	
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