



## **Module Specification**

# **Aerospace Engineer Apprenticeship (Integrated) End Point Assessment**

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## Part 1: Information

**Module title:** Aerospace Engineer Apprenticeship (Integrated) End Point Assessment

**Module code:** UFME7T-30-3

**Level:** Level 6

**For implementation from:** 2027-28

**UWE credit rating:** 30

**ECTS credit rating:** 15

**College:** College of Arts, Technology and Environment

**School:** CATE School of Engineering

**Partner institutions:** University Centre Weston

**Field:** Engineering, Design and Mathematics

**Module type:**

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** This module is the end-point assessment (EPA) for the Aerospace Engineer degree apprenticeship (integrated), which has distinctive features in how it is expected to be administered, in accordance with the IfATE standard ST0010.

The EPA period must only start once all the gateway requirements stipulated in standard ST0010 have been fulfilled.

**Features:** Not applicable

**Educational aims:** To assess learners against the apprenticeship standard's end-point assessment methods 1 and 2.

The module requires :

(1) the execution of a major, individual, work-based project, and to efficiently communicate the key elements of this project work to a professional audience, both orally through a presentation with questions and in written form (a report)

and

(2) a professional discussion underpinned by a portfolio of evidence developed throughout the apprenticeship; in this discussion the learner must evidence proficient application of aerospace engineering and management methods and processes to the assessors.

It is expected that the apprentices will demonstrate a range of skills as their project activities develop, from specialist technical skills through to transferable skills.

These will align with the KSBs developed through the apprenticeship.

In order to achieve the above apprentices will:

- Project manage their activities
- Build awareness of health and safety, along with engineering risk analysis and mitigation
- Understand and assess the project's ethical, economic, legal, social and environmental issues
- Review appropriate background material, e.g. academic literature, national codes of practice and policy, etc
- Develop a suitable research methodology for the project application , using it to analyse and evaluate the project and its process and its results
- Develop their written and verbal communication skills to disseminate the project outcomes, discussing activities undertaken, conclusions obtained and related practical implications

•Relate this project process to the apprenticeship standard's KSBs and align it with their apprenticeship portfolio.

**Outline syllabus:** There is no specific syllabus for this module as it is an End-Point Assessment module, with the first part of the assessment being a project report (the project agreed in discussion with the apprentice's employer) plus a presentation with questions, and the second part of the assessment being a professional discussion, underpinned by a portfolio of evidence developed throughout the apprenticeship.

As part of the EPA process, the project's subject, title and scope must be agreed with the employer and with the EPAO (UWE) BEFORE gateway - therefore, before this module commences.

The project itself starts AFTER the apprentice has achieved the required credits to have gone through the gateway.

The project must be based on any of the following:

- a specific problem
- a recurring issue
- an idea or opportunity.

The project must cover the following themes:

- design assessment and problem solving: defining a problem, generating ideas, evaluating ideas, solving a problem and meeting the brief. Ethical and sustainable practices
- engineering activities: engineering analysis, engineering and digital tools and techniques
- project management: prioritisation of task, time management, risk management, resource management, contingency planning
- continuous improvement: applying continuous improvement tools and techniques.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** The project will arise from an apprentice's industrial work in consultation with their manager.

As the project is an independent activity, all the supporting material to support the project process will be provided via the University's Virtual Learning Environment (VLE) - for example Blackboard. It is the apprentice's responsibility to regularly review this material to ensure compliance with the process.

A supervisor will be allocated to provide support for each project.

The learners will be supported by tutorials and mock discussions with post-discussion feedback.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Demonstrate competence at level 6 in the Knowledge, Skills and Behaviours set out in the Aerospace Engineer Apprenticeship Standard for Assessment Method 1 (project report and presentation with questions).

**MO2** Demonstrate competence at level 6 in the Knowledge, Skills and Behaviours set out in the Aerospace Engineer Apprenticeship Standard for Assessment Method 2 (professional discussion, underpinned by a portfolio of evidence).

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 290 hours

Face-to-face learning = 10 hours

Total = 0

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://readinglists.uwe.ac.uk) via the following link

<https://uwe.rl.talis.com/lti/consumers/FD5B379E-83DF-EE63-55CE-B8A282E5DA9C/resources/UFMFX8-30->

[3.22feb.2.9858031.1.html?context\\_title=UFMFX8-30-3+-+Individual+project+beng+22feb.2&custom\\_node\\_code\\_regex=%2F%5E%28.%7B11%7D%29.%2A%2F&roles=Instructor&resource\\_link\\_id=UFMFX8-30-3.22feb.2&context\\_label=UFMFX8-30-3.22feb.2&oauth\\_consumer\\_key=FD5B379E-83DF-EE63-55CE-B8A282E5DA9C&embed=true&signature=16d7fbfce2cf1a1a75a736762272134d7c7673a7f343ef5c6639cdef3f4154f6](https://3.22feb.2.9858031.1.html?context_title=UFMFX8-30-3+-+Individual+project+beng+22feb.2&custom_node_code_regex=%2F%5E%28.%7B11%7D%29.%2A%2F&roles=Instructor&resource_link_id=UFMFX8-30-3.22feb.2&context_label=UFMFX8-30-3.22feb.2&oauth_consumer_key=FD5B379E-83DF-EE63-55CE-B8A282E5DA9C&embed=true&signature=16d7fbfce2cf1a1a75a736762272134d7c7673a7f343ef5c6639cdef3f4154f6)

## Part 4: Assessment

**Assessment strategy:** This EPA has 2 assessment methods:

- Assessment method 1: project report and a presentation with questions and answers
- Assessment method 2: Professional discussion, underpinned by a portfolio of evidence.

Details:

Assessment method 1: project report and a presentation with questions and answers

- Project Report

The project report should have a word count of 10,000 words (+/- 10%).

- Presentation with questions

The apprentice will deliver a presentation to the assessors on a set topic and then answer follow-up questions. The presentation must be delivered to both assessors at the same time and must last for 60 minutes. This will typically include a presentation of 25 minutes and questioning lasting 35 minutes.

Assessment method 2: Professional discussion, underpinned by a portfolio of evidence.

The professional discussion must last for 60 minutes. The portfolio of evidence must be completed before gateway. This allows the apprentice to demonstrate their knowledge, skills, and behaviours mapped to this assessment method.

The assessments are graded as follows:

- 1) Project report and presentation with questions (Distinction/ Pass/ Fail)
- 2) Professional discussion, underpinned by a portfolio of evidence (Pass/ Fail)

The results from the assessments are combined to decide the overall EPA module and apprenticeship grade as follows:

First Sit:

- Project & Presentation: Fail + Professional Discussion: Pass = Overall Grade: Fail
- Project & Presentation: Any grade + Professional Discussion: Fail = Overall Grade: Fail
- Project & Presentation: Pass + Professional Discussion: Pass = Overall Grade: Pass
- Project & Presentation: Distinction + Professional Discussion: Pass = Overall Grade: Distinction

Resit and retake

Both assessment methods and the overall module grade (and therefore apprenticeship grade) are capped at a pass unless there are judged to be extenuating circumstances. The resit assessment profile is the same as the first sit. It is expected that apprentices will continue working on the same project at the resit and can therefore revise any first-sit submission.

This module is subject to approved variants to UWE Academic Regulations.

**Assessment tasks:**

**Presentation (First Sit)**

Description: Written Project Report + Viva. This assessment is graded Distinction/ Pass/ Fail at first sit. Resits are capped at Pass.

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Presentation (First Sit)**

Description: Professional Discussion (Pass/Fail)

Weighting:

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

**Presentation (Resit)**

Description: Written Project Report + Viva. This assessment is graded Distinction/ Pass/ Fail at first sit. Resits are capped at Pass.

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Presentation (Resit)**

Description: Professional Discussion (Pass/Fail)

Weighting:

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

**Part 5: Contributes towards**



This module contributes towards the following programmes of study:

Aerospace Engineering {Apprenticeship-UWE} [UCW] BEng (Hons) 2024-25

Aeronautical Engineering {Apprenticeship-UCW}[UCW] BEng (Hons) 2024-25