



## **Module Specification**

### **Pilot and Airline Operations**

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## Part 1: Information

**Module title:** Pilot and Airline Operations

**Module code:** UFMFAW-30-3

**Level:** Level 6

**For implementation from:** 2023-24

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Engineering Design & Mathematics

**Partner institutions:** None

**Field:** Engineering, Design and Mathematics

**Module type:** Standard

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

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

## Part 2: Description

**Overview:** Professional airline pilot today works in an extremely sophisticated and demanding world. After extensive training and proficiency check, when becoming an employee, he/she is still required to undertake continuous development, financial risk and complex legal and operational environment. This module introduces a future professional pilot to the regulatory framework that impact on a professional airline pilot from flight crew licensing to air operations.

**Features:** Not applicable

**Educational aims:** Provide student-pilots with insights into the broader context of the airline industry, including air-carrier structure, certification and regulatory requirements, as well as, flight crew regulations.

**Outline syllabus:** Origins and source of international air law and regulations.

Safety and quality in the aviation and aerospace industry.

Certified organisations - foundations, mandatory structure and stakeholders, responsibilities and privileges.

Air operators (AOC, AWC, SPO).

Flight crew licensing - introduction to ATP training.

The role, responsibilities and privileges of a crew member in the cockpit and the airline.

Pilot recruitment and assessment process.

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

**Teaching and learning methods:** Theoretical and formal knowledge is delivered via lectorial sessions. Besides meetings with representatives from the airline industry, training organisations and authorities supplement the content. It is followed by practical application via group sessions where case studies are analysed. Sample simulator sessions will be used.

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

**MO1** Manage their own learning and communicate creatively and effectively.

**MO2** Demonstrate sustained argument and problem solving relating to the current state-of-the-art of the discipline using established techniques of analysis and enquiry.

**MO3** Critically reflect on their learning in an academic and professional context, exhibiting an appreciation of the limits of knowledge and recognition of the value of continuing professional development.

**MO4** Express professional values of commercial airline pilot including initiative, personal responsibility, decision making and airmanship in cockpit and airline environment.

**MO5** Critically evaluate existing legal and procedural environment to make judgements and solve problems in a context of airline operator.

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Lectorials = 24 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/C8C09931-E3D9-1A98-273C-C48788A08E9B.html?lang=en-US&login=1) via the following link <https://rl.talis.com/3/uwe/lists/C8C09931-E3D9-1A98-273C-C48788A08E9B.html?lang=en-US&login=1>

## **Part 4: Assessment**

**Assessment strategy:** The assessment consists of two tasks:

An essay where students reflect on the broad context of Pilot and Airline Operations allowing students to demonstrate:

a systematic understanding of the wider context in which pilots and airlines operate;  
an ability to find information related to piloting and airline regulations and certification;

an appreciation of the uncertainty, ambiguity and limits of knowledge;

Two Pass/fail elements:

The first set as an e-assessment that checks the knowledge and understanding of theoretical foundations.

The second to complete 20 hours of practical flight training.

**Assessment tasks:**

**Reflective Piece (First Sit)**

Description: At the end of the semester the students submit an individual reflective essay based on the outcomes of the group work exercises done across the semester.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4, MO5

**Professional Practice Report (First Sit)**

Description: 20 hours of practical flight training

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Professional Practice Report (First Sit)**

Description: An e-assessment on the principles of current regulation and organisation of the airline operator.

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2

**Reflective Piece (Resit)**

Description: At the end of the semester the students submit an individual reflective essay based on the outcomes of the group work exercises done across the semester.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4, MO5

**Professional Practice Report (Resit)**

Description: An e-assessment on the principles of current regulation and organisation of the airline operator.

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2

**Professional Practice Report (Resit)**

Description: 20 hours of practical flight training

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Aerospace Engineering with Pilot Studies [Sep][FT][Frenchay][4yrs] MEng 2021-22

Aerospace Engineering with Pilot Studies [Sep][FT][Frenchay][3yrs] BEng (Hons)  
2021-22

Aerospace Engineering with Pilot Studies [Sep][SW][Frenchay][4yrs] BEng (Hons)  
2020-21

Aerospace Engineering with Pilot Studies [Sep][SW][Frenchay][5yrs] MEng 2020-21

Aerospace Engineering with Pilot Studies {Foundation} [Sep][FT][Frenchay][4yrs]  
BEng (Hons) 2020-21