



Module Specification

Airline Operations

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Part 1: Information

Module title: Airline Operations

Module code: UFME7S-30-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

College: College of Arts, Technology and Environment

School: CATE School of Engineering

Partner institutions: None

Field: Engineering, Design and Mathematics

Module type: Standard

Pre-requisites: Aerospace Engineering 2021-22, ICAO PPL Ground School 2021-22

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Professional aerospace engineers work in an extremely sophisticated and demanding world. After extensive training 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 engineer to the regulatory framework that impacts airline operations.

Features: Not applicable

Educational aims: Provide aerospace engineers 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).

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 operations personnel including initiative, personal responsibility, and decision making in an 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 Airline Operations allowing students to demonstrate:

a systematic understanding of the wider context in which airlines operate;
an ability to find information related to airline regulations and certification;
an appreciation of the uncertainty, ambiguity and limits of knowledge;

One pass/fail elements:

an e-assessment that checks the knowledge and understanding of theoretical foundations.

Assessment tasks:

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 (First Sit)

Description: At the end of the semester the students submit an individual reflective essay (3,000 words) based on the outcomes of the group work exercises done across the semester.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, 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

Reflective Piece (Resit)

Description: At the end of the semester the students submit an individual reflective essay (3,000 words) based on the outcomes of the group work exercises done across the semester.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

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

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

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

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

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