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| Module Title: | Flight Monitoring |
| Language of Instruction: | English |
| Credits: | 5 |
| NFQ Level: | 7 |
| Module Delivered In | 1 programme(s) |
| Teaching & Learning Strategies: | This module will be taught by class lectures, class discussions and self-directed learning |
| Module Aim: | The aim of this module is to provide the students with an understanding of the importance of flight monitoring |
| Learning Outcomes | |
| <i>On successful completion of this module the learner should be able to:</i> | |
| LO1 | Demonstrate an understanding of monitoring aircraft position(s) |
| LO2 | Discuss the impact of meteorological conditions for departure, enroute, arrival and alternate airports for a given flight |
| LO3 | Understand the importance of fuel monitoring in conjunction with the pilot in command regarding the safe continuation of the flight |
| LO4 | Demonstrate an understanding of emergency and abnormal operational situations |
| Pre-requisite learning | |
| Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i> | |
| No recommendations listed | |
| Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i> | |
| No incompatible modules listed | |
| Co-requisite Modules | |
| No Co-requisite modules listed | |
| Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i> | |
| No requirements listed | |

Module Content & Assessment

| Indicative Content |
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| International Civil Aviation Organization Annex 6 Part 1 • International Civil Aviation Organization Annex 6 Part 1 – Operation of Aircraft Duties and responsibilities of the Flight Operations Officers and Flight Dispatchers while on duty |
| Meteorological conditions Departure, En-route and Arrival; Effects of meteorological conditions on fuel consumption; Meteorological conditions at various flight levels; Operations and Volcanic Ash |
| Air Traffic Management Services Air traffic control clearance including re-dispatch where necessary Effects of ATC clearance, delays and curfews Extended Twin engine Operations (ETOPS) and Organised Track Structures (OTS) |
| Minimum Equipment List Equipment failure (aircraft system(s)) which may affect the continuation of the flight; Minimum Equipment List (MEL); impact of unserviceable items on the flight (continuation?) |
| Fuel requirements in consultation with the pilot in command Fuel for flight in consultation with the pilot-in command; monitoring flight progress and fuel consumption |
| Emergency or Abnormal situation(s) effecting the flight Role of Aircraft Communication Addressing and Report System (ACARS); Overdue at Destination; Security threat; Incapacitation of crew member; Technical problem(s) with the aircraft requiring a diversion to an alternate airport; Alerting rescue co-ordination services in the advent of emergency Informing the appropriate Government departments of emergency and or abnormal situation(s) |

| Assessment Breakdown | % |
|----------------------------------|--------|
| Continuous Assessment | 40.00% |
| End of Module Formal Examination | 60.00% |

| Continuous Assessment | | | | |
|-----------------------|---|-------------------|------------|-----------------|
| Assessment Type | Assessment Description | Outcome addressed | % of total | Assessment Date |
| Essay | Assignment will address all learning outcomes | 1,2,3,4 | 40.00 | Ongoing |

No Project

No Practical

| End of Module Formal Examination | | | | |
|----------------------------------|----------------------------------|-------------------|------------|-----------------|
| Assessment Type | Assessment Description | Outcome addressed | % of total | Assessment Date |
| Formal Exam | Learning Outcomes Assessed - All | 1,2,3,4 | 60.00 | End-of-Semester |

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

| Workload: Part Time | | |
|----------------------------|------------------|--|
| <i>Workload Type</i> | <i>Frequency</i> | <i>Average Weekly Learner Workload</i> |
| Lecture | Per Semester | 0.64 |
| Independent Learning Time | Per Semester | 4.36 |
| Total Hours | | 125.00 |

Module Delivered In

| Programme Code | Programme | Semester | Delivery |
|----------------|--|----------|-----------|
| CW_BSFOP_D | Bachelor of Science in Flight Operations | 3 | Mandatory |