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| Module Title: | Principles of Flight |
| Language of Instruction: | English |
| Credits: | 5 |
| NFQ Level: | 7 |
| Module Delivered In | 1 programme(s) |
| Teaching & Learning Strategies: | This module will be delivered by an EASA approved training organisation. |
| Module Aim: | The student will understand basic and intermediate aerodynamic concepts and how they apply to an aircraft during all stages of flight so they develop simple aerodynamic analytical and troubleshooting skills essential to an aircraft maintenance engineer. |
| Learning Outcomes | |
| <i>On successful completion of this module the learner should be able to:</i> | |
| LO1 | Understand how aircraft are controlled. |
| LO2 | Understand the aerodynamic limitations of an aircraft. |
| LO3 | Describe how a propeller operates. |
| LO4 | Understand the impact of flight mechanics on an aircraft. |
| 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

Principles of Flight

Subsonic Aerodynamics; High Speed Aerodynamics; Stability; Control; Limitations; Propellers; Flight Mechanics;

Assessment Breakdown

End of Module Formal Examination

%

100.00%

No Continuous Assessment

No Project

No Practical

End of Module Formal Examination

| Assessment Type | Assessment Description | Outcome addressed | % of total | Assessment Date |
|-----------------|------------------------|-------------------|------------|-----------------|
| Formal Exam | No Description | 1,2,3,4 | 100.00 | End-of-Semester |

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

Module Delivered In

| Programme Code | Programme | Semester | Delivery |
|----------------|--|----------|-----------|
| CW_EEPLT_D | Bachelor of Science in Pilot Studies | 3 | Mandatory |