

Module Title:	Performance
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:	To give students an understanding of the principles of aircraft performance.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Understand and describe the differences between performance Class B and performance Class A.
LO2	Understand and describe the differences between performance Class B in a single engine aircraft and performance Class B in a multi-engine 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

General

Definitions, Fundamental Mathematics, Principles of Flight, Thrust and Power, Regulations and Aerodromes. Take-off, Climbing, Descending and Gliding, The Cruise, Landing, The Initial Take-Off Climb, En-route, Increased V2 Procedure, Contaminated Runways.

Performance Class B – Single Engine Aircraft.

Take Off Distance Required, Field Length Take Off Mass, Climb Limited Mass, Calculating Obstacle Clearance, Landing Field Length Required.

Performance Class B –Multi Engine Aircraft

Take Off Distance Required, Determining TODR and ASDR, Climb Limited Mass, The Net Take-Off Flight Path and Obstacle Clearance, Landing Field Length Required

Performance Class A – Aircraft certified under EASA CS-25 Only.

Class A Take Off, ASDA and V Stop, TODA and V go, Decision Speed (V1), Range of V1, V Speeds and restrictions, Take off distance, Take off Run, Field Length Limited Take Off Mass (FLTOM), Balanced Field, PLTOM, MRJT, Vmbe and Take off Mass, Finding Take-Off % of N1.

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	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