

No Co-requisite modules listed

No requirements listed

## PILO H2616: General Navigation

	X	University			
Module Title:		General Navigation			
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 general navigational principles, such as: The Basics of Navigation; Magnetism and Compasses; Charts; Dead Reckoning Navigation.; In Flight Navigation; Inertial Navigatios systems.			
Learning (	Outcomes				
On succes	sful completion o	f this module the learner should be able to:			
LO1	Understand the basic principles of navigation				
LO2	Understand t	he significance of magnetism to navigation.			
LO3	Describe and	interpret navigational charts.			
LO4	Understand t	he principles of dead reckoning navigation.			
LO5	Understand t	Understand the principles of in-flight navigation.			
Pre-requis	site learning				
	ecommendation or learning (or a p	s ractical skill) that is recommended before enrolment in this module.			
No recomm	No recommendations listed				
	ble Modules modules which h	ave learning outcomes that are too similar to the learning outcomes of this module.			
No incompatible modules listed					
Co-requis	ite Modules				

**Requirements**This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.



## PILO H2616: General **Navigation**

## **Module Content & Assessment**

## **Indicative Content**

### **Basics of Navigation**

The form of the Earth, Position on the Earth, Distance, Great Circle Distance,

### Magnetism and compasses

Principles of Magnetism, Magnetic Properties, Magnetic Moment, Period of a Suspended Magent, Hard and Soft Iron, Terrestrial Magnetism, Magnetic Variations, Aircraft Magnetism, Determination of Deviation Coefficients, Compass Swing, Compensation Devices, Direct Reading Magnetic Compass, E Type Compass, Gyro Magnetic Compass, Remote Indicating Gyro Magnetic Compass.

Mercator, Lamberts Conformal, Polar Stereographic, Transverse Mercator, Oblique Mercator.

Dead Reckoning Navigation
Direction, Speed, Triangle of Velocities, Pooley's CRP 5 Circular Slide Rule, Pooley's-The Triangle of Velocities,

In-Flight Navigation
Pilot Navigation Techniques, Relative Velocity, Principles of Plotting, Time, Point of Equal Time and Point of Safe Return and Radius of Action.

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	1,2,3,4,5	100.00	End-of-Semester				

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

# PILO H2616: General Navigation

Module Workload

## Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_EEPLT_D	Bachelor of Science in Pilot Studies	4	Mandatory