

<b>Module Title:</b>	Earthworks Measurement
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	<a href="#">3 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	Lectures Projects Practical's Private study Blackboard
<b>Module Aim:</b>	The aims of the subject are: (1) to develop skills in the calculation and quantification of earthworks. (2) to develop practical skills in the use of surveying equipment. (3) to develop skills in the use of surveying and measurement software.
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	to carry out measurement and calculation of areas and volumes of buildings, earthworks and other construction features.
LO2	to demonstrate knowledge of modern Total Station instruments.
LO3	to demonstrate knowledge of relevant software to aid in the measurement and quantification of earthworks
<b>Pre-requisite learning</b>	
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Requirements</b> <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**

**(1) Volume Estimation**

(a) Calculation of volumes of earthworks by differing methods (b) Surveying equipment usage

**(2) Practical Work**

n/a

**(3) Computer Applications**

(a) Mudshark or similar measurement software

Assessment Breakdown	%
Continuous Assessment	50.00%
Project	50.00%

**Continuous Assessment**

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	n/a	1,2,3	50.00	n/a

**Project**

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	n/a	1,2,3	50.00	n/a

No Practical

No End of Module Formal Examination

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

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	1.00
Practicals	12 Weeks per Stage	1.00
Estimated Learner Hours	12 Weeks per Stage	5.00
Total Hours		84.00

**Module Delivered In**

Programme Code	Programme	Semester	Delivery
CW_CMOPPT_B	<a href="#">Bachelor of Science (Honours) in Construction Management</a>	3	Mandatory
CW_CMQSU_B	<a href="#">Bachelor of Science (Honours) in Quantity Surveying</a>	3	Mandatory
CW_CMBSE_D	<a href="#">Bachelor of Science in Construction Management</a>	3	Mandatory