

AGRI C3704: Soil and Nutrient Management on Organic Farms

Module Title	:		Soil and Nutrient Management on C	Prganic Farms
Language of	f Instructi	on:	English	
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Credits:		5		
NFQ Level:		8		
Mark In Dat			0	
Module Deli	vered in		2 programme(s)	
Teaching & Strategies:	Learning			boratory work will be used engage the student in the importance of soils system. Where appropriate, case studies will be used to demonstrate op growth.
Module Aim	:		importance of soils in a sustainable maintenance of soil organic matter a	Science 1, further enhancing the students understanding of the agricultural system. Specifically, this module will focus on the and its importance in soil structure and soil nutrient cycling. Completion r nutrient additions to organic farms will also be studied.
Learning Ou	toomoo			
On successfu	ul completi	on of tl	his module the learner should be able	to:
LO1	Demonst	rate an	understanding of the principles of so	il management in organic farming
LO2	Demonst	rate an	understanding of nutrient manageme	ent in organic agriculture
LO3	Demonst	rate ho	w to improve soil organic matter in a	range of different organic farming enterprises
Pre-requisit	e learning			
Module Rec	- ommenda	tions		
			ctical skill) that is recommended befor	e enrolment in this module.
8636	FAF	RM H27	703_1	Concepts in Soil Science
Incompatible			e learning outcomes that are too simi	lar to the learning outcomes of this module.
No incompatible modules listed				
Co-requisite	Modules			
No Co-requis	site module	es listed	b	
Requiremen This is prior l		r a prac	ctical skill) that is mandatory before er	nrolment in this module is allowed.
No requireme	ents listed			



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Module Content & Assessment

Indicative Content

Soil Fertility

The learner will explore the properties that contribute to soil fertility including characteristics, qualities, and processes. Practical soil profiling will assist in the identification of soil types and fertility potential which will enhance the classroom-based learning

Macro and Micro-nutrients

Identification of the role of the macro and micro nutrients required for organic plant production will be explored. Learners will interpretate results of soil analysis. Key nutrient organic materials such as composting, farmyard manure management, grain and forage legumes, green manures and other nutrient applications permitted under the organic regulations will be explored. Practical applications will include the completion of nutrient budgets for selected organic farms. Farm visits and case studies will assist in the practical learning.

Organic Matter

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The importance of soil organic matter and the role it plays in nutrient management will be explored. Key aspects affecting soil organic matter such as cultivation techniques, mulches, drainage systems, soil protection and actions to prevent erosion and preserve soil organic matter will be examined. Practical work and field visits will be used to supplement formal lectures.

Assessment Breakdown	%
Continuous Assessment	50.00%
End of Module Formal Examination	50.00%

Continuous As	sessment			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Complete a nutrient management plan for a farm based on a soil analysis and all management factors including the long term improvement of soil organic matter.	1,2,3	50.00	n/a

No Project		

No Practical				
End of Module Formal Exa	amination			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Terminal Examination	1,2,3	50.00	End-of-Semester

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



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	Every Week	1.50
Practicals	Every Week	1.50
Independent Learning Time	Every Week	3.00
	Total Hours	6.00

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_SWOAG_B	Bachelor of Science (Honours) in Organic Agriculture	5	Mandatory	
CW SWOAG D	Bachelor of Science in Organic Agriculture	5	Mandatory	