



**cetb**

Bord Oideachais agus  
Oiliúna Chorcaí

*Cork Education and  
Training Board*

**Cork Education and Training Board**

**Programme Module for**

**Growing Fruit**

**leading to**

**Level 4 FETAC**

**Growing Fruit 4N0668**

### Introduction

This programme module may be delivered as a standalone module leading to certification in a FETAC minor award. It may also be delivered as part of an overall validated programme leading to a Level 4 FETAC Certificate.

The teacher/tutor should familiarise themselves with the information contained in Cork Education and Training Board's programme descriptor for the relevant validated programme prior to delivering this programme module.

The programme module is structured as follows:

1.	Title of Programme Module
2.	FETAC Component Title and Code
3.	Duration in hours
4.	Credit Value of FETAC Component
5.	Status
6.	Special Requirements
7.	Aim of the Programme Module
8.	Objectives of the Programme Module
9.	Learning Outcomes
10.	Indicative Content
11.	Assessment
	1. Assessment Technique(s)
	2. Mapping of Learning Outcomes to Assessment Technique(s)
	3. Guidelines for Assessment Activities
12.	Grading
13.	Learner Marking Sheet(s), including Assessment Criteria

### Integrated Delivery and Assessment

The teacher/tutor is encouraged to integrate the delivery of content where an overlap between content of this programme module and one or more other programme modules is identified. This programme module will facilitate the learner to develop language, literacy and numeracy skills relevant to the themes and content of the module.

Likewise the teacher/tutor is encouraged to integrate assessment where there is an opportunity to facilitate a learner to produce one piece of assessment evidence which demonstrates the learning outcomes from more than one programme module. The integration of the delivery and assessment of level 4 Communications and level 4 Mathematics modules with that of other level 4 modules is specifically encouraged.

Structured communication and teamwork is encouraged between the teacher/tutor delivering this programme module and the language, literacy, numeracy and learning support teacher/tutor, as appropriate, to facilitate the learner in completing the programme module and achieving certification in the award.

**Indicative Content**

The indicative content in Section 10 does not cover all teaching possibilities. The teacher/tutor is encouraged to be creative in devising and implementing other approaches, as appropriate. The use of examples is there to provide suggestions. The teacher/tutor is free to use other examples, as appropriate. The indicative content ensures all learning outcomes are addressed but it may not follow the same sequence as that in which the learning outcomes are listed in Section 9. It is the teacher's/tutor's responsibility to ensure that all learning outcomes are included in the delivery of this programme module.

Cork Education and Training Board

<p><b>1. Title of Programme Module</b> Growing Fruit</p>
<p><b>2. Component Name and Code</b> Growing Fruit 4N0668</p>
<p><b>3. Duration in Hours</b> 100 Hours (typical learner effort, to include both directed and self directed learning)</p>
<p><b>4. Credit Value</b> 10 Credits</p>
<p><b>5. Status</b> This programme module may be compulsory or optional within the context of the validated programme. Please refer to the relevant programme descriptor, Section 9 Programme Structure</p>
<p><b>6. Special Requirements</b> None</p>
<p><b>7. Aim of the Programme Module</b> This programme module aims equip the learner with the relevant knowledge, skill and competence to plant, grow and maintain a range of fruit under supervision.</p>
<p><b>8. Objectives of the Programme Module</b></p> <ul style="list-style-type: none"> <li>• To provide the learner with the knowledge of the major factors affecting soil suitability for fruit production</li> <li>• To provide the learner with the skills for preparing, growing, establishing and harvesting fruit.</li> <li>• To provide the learner with mechanisms to deal with common pests, diseases and weed identification and control.</li> <li>• To enable the learner to observe the correct safety procedures when using relevant equipment/work practices in order to create and maintain a safe working environment.</li> <li>• To assist the learner to develop the language, literacy and numeracy skills related to Growing Vegetables through the medium of the module themes and content</li> <li>• To enable the learner to take responsibility for his/her own learning.</li> </ul>

**9. Learning Outcomes of Level 4 Growing Fruit 4N0668**

Learners will be able to:

1. State the major factors affecting soil suitability for fruit production to include soil composition, nutrient availability, water holding capacity, drainage, organic matter content and compaction
2. Prepare ground for fruit growing to include digging, breaking up of soil, removal of debris, weeds and large stones to form suitable surface
3. Plant a range of fruit plants to include bare-root and containerised tree fruit, bush, cane and soft fruit
4. Apply compost, manure and fertiliser to a stated rate at planting and throughout the growing season
5. Deal with common pests and diseases of fruit crops to include identification and control by a range of methods
6. Deal with weeds to include identification and control by a range of methods
7. Maintain growing fruit crops to include watering, weather and pest protection, pruning, training and supporting
8. Harvest a range of fruit to include selection, grading and packing
9. Operate within appropriate safety procedures to create and maintain a safe working environment including safety standards regarding lifting, carrying and handling plants, tools and equipment.

<p><b>10. Indicative Content</b></p> <p>This section provides suggestions for programme content but is not intended to be prescriptive. The programme module can be delivered through classroom based learning activities, group discussions, one-to-one tutorials, field trips, case studies, role play and other suitable activities, as appropriate.</p>
<p><b>Section 1: Factors Affecting Soil Suitability</b></p>
<p><b>Facilitate the learner to determine the suitability of growing fruit on a given soil to include the following factors:</b></p> <ul style="list-style-type: none"> <li>• Site assessment including visual analysis of the site and soil, digging a pit to establish the soil type, water holding capacity, drainage, organic matter content and compaction, earthworm count, PH test, percolation test, determining soil type e.g. clay, brown soil etc.</li> </ul>
<p><b>Section 2: Ground Preparation</b></p>
<p><b>Facilitate the learner to prepare the ground for fruit production based on results of soil suitability test to include:</b></p> <ul style="list-style-type: none"> <li>• Rotovating/ breaking up of soil, removal of debris, weeds and large stones to form suitable surface</li> <li>• Apply compost, manure and fertilizer as needed based on soil suitability test results</li> <li>• Demonstrating awareness of conventional and organically-approved nutrient requirements for a range of fruit types</li> <li>• Demonstrating awareness of climate, aspect and shelter in planting a range of fruit types</li> </ul>
<p><b>Section 3: Planting and Maintaining a Range of Fruit Plants</b></p>
<p><b>Facilitate the learner to plant and maintain a range of fruit types including:</b></p> <ul style="list-style-type: none"> <li>• Planning a planting calendar of fruit linked to seasonal, structural and soil suitability factors</li> <li>• Measuring and marking an appropriate planting site</li> <li>• Planting a range of fruit types to include bare root tree fruit, containerised tree fruit, bush, cane and soft fruit</li> <li>• Maintaining a range of fruit types as indicated above by use of appropriate watering, fertilizing, supporting, training and pruning techniques during and after planting</li> </ul>
<p><b>Section 4: Dealing with Common Pests and Diseases and Weed Identification and Control</b></p>
<p>Facilitate the learner to prevent/ control and/or correctly deal with common pests, diseases and weeds to include:</p> <ul style="list-style-type: none"> <li>• Identifying the common pests, diseases and weeds relating to growing fruit</li> <li>• Outlining preventative measures to be taken against pests, diseases and weeds</li> <li>• Controlling pests/diseases and weeds by a range of methods; for example, organic methods, chemical methods, biological methods etc.</li> </ul>
<p><b>Section 5: Harvesting, Grading, Packing and Preserving of Fruit Produce</b></p>
<p><b>Facilitate the learner to harvest, store and grade a variety of fruits to market standards, including:</b></p> <ul style="list-style-type: none"> <li>• Demonstrating awareness of different harvesting techniques</li> <li>• Harvesting a crop of fruit planted and grown as part of the programme linked with the</li> </ul>

planting calendar outlined in Section 3

- Identifying market criteria for grading, for example size, ripeness, blemishing etc.
- Grading the fruit into the selected categories, for example Class A, Class B and processing class.

**Facilitate the learner to source, assemble and fill a range of fruit packaging products including:**

- Sourcing packaging products
- Recognising various types of packaging, for example punnets, solid crates, cardboard crates etc.
- Packing and labelling fruit in a range of different types of packaging products with reference to both effective presentation and protection.

### **Section 6: Health and Safety Procedures**

**Facilitate the learner to operate in a safe environment when growing fruit, to include:**

- Correct lifting/ carrying techniques
- Correct use of personal protection equipment and clothing
- Safe and correct engagement with poisonous, hazardous plants
- Safe use of chemicals

Safe use of appropriate tools

**11. Assessment****11a. Assessment Techniques**

Skills Demonstration 80%

Examination - Theory 20%

**11b. Mapping of Learning Outcomes to Assessment Techniques**

In order to ensure that the learner is facilitated to demonstrate the achievement of all learning outcomes from the component specification; each learning outcome is mapped to an assessment technique(s). This mapping should not restrict an assessor from taking an integrated approach to assessment.

<b>Learning Outcome</b>	<b>Assessment Technique</b>
1. State the major factors affecting soil suitability for fruit production to include soil composition, nutrient availability, water holding capacity, drainage, organic matter content and compaction	Skills Demonstration and Examination
2. Prepare ground for fruit growing to include digging, breaking up of soil, removal of debris, weeds and large stones to form suitable surface	Skills Demonstration and Examination
3. Plant a range of fruit plants to include bare-root and containerised tree fruit, bush, cane and soft fruit	Skills Demonstration and Examination
4. Apply compost, manure and fertiliser to a stated rate at planting and throughout the growing season	Skills Demonstration and Examination
5. Deal with common pests and diseases of fruit crops to include identification and control by a range of methods	Skills Demonstration and Examination
6. Deal with weeds to include identification and control by a range of methods	Skills Demonstration and Examination
7. Maintain growing fruit crops to include watering, weather and pest protection, pruning, training and supporting	Skills Demonstration and Examination
8. Harvest a range of fruit to include selection, grading and packing	Skills Demonstration and Examination
9. Operate within appropriate safety procedures to create and maintain a safe working environment including safety standards regarding lifting, carrying and handling plants, tools and equipment.	Skills Demonstration and Examination



**11c. Guidelines for Assessment Activities**

The assessor is required to devise assessment briefs and marking schemes for the skills demonstration and examination papers, marking schemes and outline solutions for the examination. In devising the assessment briefs and examination papers, care should be taken to ensure that the learner is given the opportunity to show evidence of achievement of ALL the learning outcomes.

Assessment briefs may be designed to allow the learner to make use of a wide range of media in presenting assessment evidence, as appropriate. Quality assured procedures must be in place to ensure the reliability of learner evidence.

<b>Skills Demonstration</b>	<b>80 %</b>
The learner will complete 4 skill demonstrations at appropriate intervals during the course of the programme module taking into consideration seasonal factors.	
<b>Skills Demonstration One                      30%</b>	
<b>Preparation</b>	
<b>The learner will complete a checklist incorporating the following elements:</b>	
<ul style="list-style-type: none"> <li>▪ Site Assessment including visual analysis of the site and soil, dig a pit to establish the soil type, water holding capacity, drainage, organic matter content and compaction, organic matter content and compaction, earthworm count, PH test, percolation test, determine soil type e.g. clay, brown soil etc.</li> </ul>	
<b>The learner will prepare the ground to include:</b>	
<ul style="list-style-type: none"> <li>• Digging/rotovating the ground, removing debris, weeds and large stones. Soil improvement if necessary.</li> <li>• The learner will keep an audiovisual and/or written journal of the stages of ground preparation.</li> <li>• Follow correct Health and Safety Procedures</li> </ul>	
<b>Skills Demonstration Two                      30%</b>	
<b>Planting/Growing</b>	
<b>The learner will keep a planting journal/diary and carry out the following activities.</b>	
<ul style="list-style-type: none"> <li>• Assess the quality of the planting material prior to purchase e.g. check for disease, vitality etc</li> <li>• Use correct care procedures for the planting material in transporting and pre- planting stages.</li> <li>• Determine the size of the planting area.</li> <li>• Soil Amendment where appropriate e.g. drainage, organic content, composting, aeration etc.</li> <li>• Plant a range of fruit plants to include bare root and containerized tree fruit, bush, cane and soft fruit.</li> <li>• Correct pruning, training and support if required.</li> <li>• Follow correct Health and Safety Procedures</li> </ul>	
<b>Skills Demonstration Three                      10%</b>	
<b>Pests, Diseases and Weeds</b>	
<b>The learner will use a range of methods to prevent and control pests, diseases and weeds and keep a written journal to include:</b>	
<ul style="list-style-type: none"> <li>• Identifying and preventing common pests, diseases and weeds</li> </ul>	

<ul style="list-style-type: none"> <li>• Controlling grass and weeds around fruit plots;</li> <li>• Protection from range of animals/pests using appropriate guards/fencing for rabbits, rodents, slugs, snails, birds etc</li> <li>• Correct use of a range of organic, chemical and biological control methods.</li> <li>• Following correct Health and Safety Procedures</li> </ul>
<p><b>Skills Demonstration Four                      10%</b></p> <p><b>Harvesting</b>  <b>The learner will keep a harvesting record and harvest the produce grown as part of the programme to include;</b></p> <ul style="list-style-type: none"> <li>• Use of a range of harvesting techniques in line with the planting calendar used on the programme.</li> <li>• Use a variety of methods to select, grade and pack the produce appropriate to the scale of production and end use of fruit.</li> <li>• Follow correct Health and Safety Procedures</li> </ul>

<b>Examination</b>	<b>20%</b>
<b>The learner will undertake examination as follows: 1 hour duration</b>	
<b>The examination will consist of ten questions (2%) per questions related to the overall programme module.</b>	

**12. Grading**

Distinction:	80% - 100%
Merit:	65% - 79%
Pass:	50% - 64%
Unsuccessful:	0% - 49%

At levels 4, 5 and 6 major and minor awards will be graded. The grade achieved for the major award will be determined by the grades achieved in the minor awards

<b>Growing Fruit 4N0668</b>	<b>Learner Marking Sheet Skills Demonstration One 30%</b>
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Learner Name: \_\_\_\_\_

Learner PPSN: \_\_\_\_\_

Assessment Criteria	Maximum Mark	Learner Mark
<b>Skills Demonstration One</b> <b>Preparation</b> <b>The learner will complete a checklist incorporating the following elements:</b> <ul style="list-style-type: none"> <li>▪ Site Assessment including visual analysis of the site and soil, dig a pit to establish the soil type, water holding capacity, drainage, organic matter content and compaction, organic matter content and compaction, earthworm count, PH test, percolation test, determine soil type e.g. clay, brown soil etc.</li> <li>▪ Adherence to the relevant health and safety procedures.</li> </ul> <b>The learner will prepare the ground to include:</b> <ul style="list-style-type: none"> <li>• Digging/rotovating the ground, removing debris, weeds and large stones. Soil improvement if necessary.</li> <li>• The learner will keep an audiovisual and/or written journal of the stages of ground preparation.</li> <li>• Adherence to the relevant health and safety procedures.</li> </ul>	15	
	15	
<b>Total mark</b>	<b>30</b>	

This is to state that the evidence presented in the attached portfolio is complete and is the work of the named learner.

Assessor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

External Authenticator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Growing Fruit 4N0668</b>	<b>Learner Marking Sheet Skills Demonstration Two 30%</b>
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Learner Name: \_\_\_\_\_

Learner PPSN: \_\_\_\_\_

Assessment Criteria	Maximum Mark	Learner Mark
<b>Skills Demonstration Two</b> <b>Planting/Growing</b> <b>The learner will keep a planting journal/diary and carry out the following activities.</b> <ul style="list-style-type: none"> <li>• Assess the quality of the planting material prior to purchase e.g. check for disease, vitality etc</li> <li>• Use correct care procedures for the planting material in transporting and pre- planting stages.</li> <li>• Determine the size of the planting area.</li> <li>• Soil amendment where appropriate e.g. drainage, organic content, composting, aeration etc.</li> <li>• Follow correct Health and Safety Procedures</li> </ul> <b>The learner will keep a planting journal/diary and carry out the following activities.</b> <ul style="list-style-type: none"> <li>• Plant a range of fruit plants to include bare root and containerized tree fruit, bush, cane and soft fruit</li> <li>• Pruning, training and support if required.</li> <li>• Follow correct Health and Safety Procedures</li> </ul>	15 marks	
	15 marks	
	30 marks	

This is to state that the evidence presented in the attached portfolio is complete and is the work of the named learner.

Assessor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

External Authenticator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Growing Fruit 4N0668</b>	<b>Learner Marking Sheet Skills Demonstration Three 10%</b>
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Learner Name: \_\_\_\_\_

Learner PPSN: \_\_\_\_\_

Assessment Criteria	Maximum Mark	Learner Mark
<b>Skills Demonstration Three</b> <b>Pests, Diseases and Weeds</b> <b>The Learner will use a range of methods to prevent and control pests, diseases and weeds and keep a written journal to include:</b> <ul style="list-style-type: none"> <li>• Identifying and preventing common pests, diseases and weeds</li> <li>• Control grass and weeds around fruit plots;</li> <li>• Protection from range of animals/pests using appropriate guards/fencing for rabbits, rodents, slugs, snails, birds etc</li> <li>• Correct use of a range of organic, or chemical, or biological control methods.</li> </ul> Follow correct Health and Safety Procedures	10 marks	
	10 marks	

This is to state that the evidence presented in the attached portfolio is complete and is the work of the named learner.

Assessor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

External Authenticator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Growing Fruit 4N0668</b>	<b>Learner Marking Sheet Skills Demonstration Four 10%</b>
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Learner Name: \_\_\_\_\_

Learner PPSN: \_\_\_\_\_

<b>Skills Demonstration Four</b> <b>Harvesting</b> <b>The learner will keep a harvesting record and harvest the produce grown as part of the programme to include;</b>	10 marks	
<ul style="list-style-type: none"> <li>• Use of a range of harvesting techniques in line with the planting calendar used on the programme.</li> <li>• Use a variety of methods to select, grade and pack the produce appropriate to the scale of production and end use of vegetables.</li> </ul>		
Follow correct Health and Safety Procedures		
	10 marks	

This is to state that the evidence presented in the attached portfolio is complete and is the work of the named learner.

Assessor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

External Authenticator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Growing Fruit 4N0668</b>	<b>Learner Marking Sheet Examination 20%</b>
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Learner's Name: \_\_\_\_\_

Learner's PPSN: \_\_\_\_\_

<b>Assessment Criteria</b>	<b>Maximum Mark</b>	<b>Learner Mark</b>
<b>Examination Questions</b> Ten short answer questions, answer all (2 marks each) (Indicate questions answered)		
Question 1 _____	2	
Question 2 _____	2	
Question 3 _____	2	
Question 4 _____	2	
Question 5 _____	2	
Question 6 _____	2	
Question 7 _____	2	
Question 8 _____	2	
Question 9 _____	2	
Question 10 _____	2	
<b>Total Marks</b>	<b>20</b>	

This is to state that the evidence presented in the attached portfolio is complete and is the work of the named learner.

Assessor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

External Authenticator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_