# HTSC H2026: Vegetable Production

**Short Title:** Vegetable Production  
**Full Title:** Vegetable Production  
**Module Code:** HTSC H2026  
**ECTS credits:** 5  
**NFQ Level:** 6  
**Module Delivered in** 2 programme(s)  
**Module Contributor:** Harold Lawlor  

## Module Description:
This module introduces the learner to the basic concepts involved in drawing up production and management schedules for a range of commercially produced vegetable crops. Learners will study crop establishment, growing methods, crop protection practices. They will also familiarise themselves with the machinery involved at each stage of the production, harvesting and grading processes.

## Learning Outcomes:
On successful completion of this module the learner will be able to

1. Describe the processes for establishment of a range of vegetable crops in a commercial horticulture enterprise  
2. Explain the key environmental factors required for optimum growth of vegetable crops  
3. Identify the common pests, diseases and weeds affecting a range of vegetable crops and select the appropriate control measures, in line with the Sustainable Use of Pesticides Directive  
4. Discuss the nutrient status of soils and/or other growing media and select appropriate nutrient programmes for a range of vegetable crops  
5. Plan, design and construct production and management plans for a range of vegetable crops  
6. Outline the output, maintenance and safe operational requirements of a range of machinery for the establishment, production, harvesting of vegetable crops
Module Content & Assessment

Indicative Content

Brassicas
All year round cabbage, sprouts, cauliflower and broccoli production, including the preparation of soil through to harvesting. Identifying pests and diseases in brassicas, using a weed control chart. Harvest, grade and pack a range of brassica crops.

Root-crops

Allium Crops
Production and management systems and schedules for an allium crop. The identification and assessment of pest and disease damage on allium crops. The sowing, planting, growth stages, and plant stands for alliums. Outline methods for harvesting and storage of alliums.

Potato production
Early and main crop potato growing, seed potato production, including adaptation of production and management programmes. The identification of pests and diseases typical to potatoes. The process of burn off and its timing. The management of potato harvesting, filling stores, potatoes in store. Particular grading and packing operations for potato crops.

Machinery used for food crop production
An overview of machinery particular to the food crop industry and its use, including the preparation and operation of equipment for ploughing, tilling, sowing, planting and harvesting for vegetables and potatoes. Choice, operation and maintenance of machinery.

Indicative Assessment Breakdown

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>% of total</th>
<th>Assessment Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Work Assessment %</td>
<td>30.00%</td>
<td></td>
</tr>
<tr>
<td>Final Exam Assessment %</td>
<td>70.00%</td>
<td></td>
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</table>

Course Work Assessment %

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>Assessment Description</th>
<th>Outcome addressed</th>
<th>% of total</th>
<th>Assessment Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Report</td>
<td>Produce a written report on the systems of production discussed during field visits</td>
<td>1</td>
<td>10.00</td>
<td>n/a</td>
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<tr>
<td>In-class test</td>
<td>Identify a range of common pests, diseases, disorders and weeds affecting vegetable crops (two tests at 5% each)</td>
<td>3</td>
<td>10.00</td>
<td>n/a</td>
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<tr>
<td>Portfolio</td>
<td>Compile a portfolio of machinery suitable for the production and harvesting of a range of vegetable crops</td>
<td>6</td>
<td>10.00</td>
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Final Exam Assessment %

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>Assessment Description</th>
<th>Outcome addressed</th>
<th>% of total</th>
<th>Assessment Date</th>
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<tbody>
<tr>
<td>Formal Exam</td>
<td>End-of-Semester Final Examination</td>
<td>1,2,4,5</td>
<td>70.00</td>
<td>End-of-Semester</td>
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Indicative Reassessment Requirement

Repeat examination
Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

ITB reserves the right to alter the nature and timings of assessment
# Indicative Module Workload & Resources

## Indicative Workload: Full Time

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Indicative Average Weekly Learner Workload</th>
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<tbody>
<tr>
<td>Every Week</td>
<td>2.00</td>
</tr>
<tr>
<td>Every Week</td>
<td>1.00</td>
</tr>
<tr>
<td>Every Week</td>
<td>2.00</td>
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## Resources

### Recommended Book Resources


### Supplementary Book Resources


*This module does not have any article/paper resources*

*This module does not have any other resources*
<table>
<thead>
<tr>
<th>Programme Code</th>
<th>Programme</th>
<th>Semester</th>
<th>Delivery</th>
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<tbody>
<tr>
<td>BN_SHTSC_8</td>
<td>Bachelor of Science (Honours) in Horticulture [240 ECTS credits]</td>
<td>3</td>
<td>Mandatory</td>
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<tr>
<td>BN_SHTSC_7</td>
<td>Bachelor of Science in Horticulture [180 ECTS credits]</td>
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<td>Mandatory</td>
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