

ASSESSMENT GUIDELINES

Unit 22187

Manage a crop harvest

Level 4, Credit 15, version 1

Manage a crop harvest

Unit standard 22187

Level 4, Credit 15, Version 1

Level of performance required for this unit standard

This is a level 4 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under broad guidance, independently; with complete responsibility for the standards of the outcome achieved.
- To apply technical skills, knowledge, and innovation to complete the task to the specified standard, in a variety of familiar and unfamiliar contexts.
- To analyse and interpret information, and make an informed judgment.

Workplace assessment:

For guidelines on Workplace Assessment, please refer to the NZHITO Workplace Assessors Manual, and for further information, please contact: NZHITO, P O Box 8638, Christchurch. Ph 03 9644 735, fax 03 9644 737, website www.hortito.org.nz

Special notes:

- 1 *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.
- 2 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992.
- 3 Range: one commercial crop - cut flower production, outdoor vegetable production, or greenhouse production.
- 4 Candidates for assessment against this unit standard are required to manage the crop harvest throughout the harvesting period. The harvesting period should be a minimum of six weeks. This could include more than one crop harvest period.
- 5 The horticultural industry has a range of quality control and management systems for each horticultural sector. In order to source suitable information to prepare for assessment against this unit standard it is recommended that candidates contact relevant national horticultural industry or marketing organisations.

**Unit 22187: Manage a crop harvest
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify established harvest criteria	Yes/No	<ul style="list-style-type: none"> ▪ Identify the standards established by the horticultural marketing organizations, and determine their application to the selected crop ▪ Determine the market set harvest criteria where no industry established criteria exists. ▪ Develop site harvest criteria where no off-site criteria applicable to the crop are available.
Element 2 Assess crop readiness for harvesting	Yes/No	<ul style="list-style-type: none"> ▪ Use observed differences between crop conditions and adopted harvest criteria to assess harvest planning requirements. ▪ Apply knowledge of factors influencing crop development and maturity to determine the likely date of harvest readiness. Range: prevailing and predicted weather, degree to which present crop conditions differs from harvest requirements, assessed time required to meet harvest requirements. ▪ Estimate harvest duration based on observed crop maturity range and predicted date when last of crop will meet harvest requirements. ▪ Conduct tests specified by the controlling authority on crop samples to determine harvest readiness of crop where required by that authority. Range: may include but not limited to – refractometer, penetrometer, iodine test, hydrometer, colour test, size
Element 3 Conduct pre-harvest crop estimation	Yes/No	<ul style="list-style-type: none"> ▪ Select areas or plants that include both poor and excellent growing conditions representative of the whole crop ▪ Select area or plants at random, but representative of growing conditions across the whole block ▪ Mark areas or plants so they can be revisited again later if necessary and market on a property plan. ▪ Estimate the crop harvest on the selected plants or crop. ▪ Estimate marketable crop production against harvest criteria. Range: size, grade, colour, shape. ▪ Estimate the proportion of the crop that will be saleable. ▪ Estimate crop production for the selected area.
Element 4 Manage the crop harvest operation from picking to packaging	Yes/No	<ul style="list-style-type: none"> ▪ Decide upon a harvest commencement time that is appropriate for the crop requirements and in accordance with workplace procedures. ▪ Set appropriate selection criteria for crop requirements, and in accordance with workplace procedures. ▪ Ensure staff and equipment are organized to enable efficient flow from harvesting to packaging. ▪ Prepare a harvest report that compares the estimated and actual production figures, with notes on how to improve the crop estimation process next season.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 22187. (version 1)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

Unit 22187: Manage a crop harvest (Assessor copy)

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify established harvest criteria	Yes/No	<ul style="list-style-type: none"> ▪ Identify the standards established by the horticultural marketing organizations, and determine their application to the selected crop ▪ Determine the market set harvest criteria where no industry established criteria exists. ▪ Develop site harvest criteria where no off-site criteria applicable to the crop are available.
Element 2 Assess crop readiness for harvesting	Yes/No	<ul style="list-style-type: none"> ▪ Use observed differences between crop conditions and adopted harvest criteria to assess harvest planning requirements. ▪ Apply knowledge of factors influencing crop development and maturity to determine the likely date of harvest readiness. Range: prevailing and predicted weather, degree to which present crop conditions differs from harvest requirements, assessed time required to meet harvest requirements. ▪ Estimate harvest duration based on observed crop maturity range and predicted date when last of crop will meet harvest requirements. ▪ Conduct tests specified by the controlling authority on crop samples to determine harvest readiness of crop where required by that authority. Range: may include but not limited to – refractometer, penetrometer, iodine test, hydrometer, colour test, size
Element 3 Conduct pre-harvest crop estimation	Yes/No	<ul style="list-style-type: none"> ▪ Select areas or plants that include both poor and excellent growing conditions representative of the whole crop ▪ Select area or plants at random, but representative of growing conditions across the whole block ▪ Mark areas or plants so they can be revisited again later if necessary and market on a property plan. ▪ Estimate the crop harvest on the selected plants or crop. ▪ Estimate marketable crop production against harvest criteria. Range: size, grade, colour, shape. ▪ Estimate the proportion of the crop that will be saleable. ▪ Estimate crop production for the selected area.
Element 4 Manage the crop harvest operation from picking to packaging	Yes/No	<ul style="list-style-type: none"> ▪ Decide upon a harvest commencement time that is appropriate for the crop requirements and in accordance with workplace procedures. ▪ Set appropriate selection criteria for crop requirements, and in accordance with workplace procedures. ▪ Ensure staff and equipment are organized to enable efficient flow from harvesting to packaging. ▪ Prepare a harvest report that compares the estimated and actual production figures, with notes on how to improve the crop estimation process next season.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 22187. (version 1)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

Please send this page to your NZHITO Regional Manager, who will forward it to National Office to register the credits on your NZQA Record of Learning.

Unit 22187: Manage a crop harvest

(Name of Apprentice)

is Competent in Unit Standard 22187. (version 1)

Signed (Assessor):

WPA Registration Number: _____

Date: _____