

LANAgC8 SQA Unit Code H58F 04

Manage the production of novel crops



Overview

This standard covers managing the production of novel crops, including growing, harvesting and storage.

A novel crop is one which has to be grown under specific conditions.

The standard does not deal with the basic principles of establishment, plant health, harvest and storage but looks at specific protocols required for the production of novel crops including separation distances, different types of barrier and methods to prevent adventitious presence (cross contamination) and volunteer control.

This standard is suitable for those with responsibility for the production of novel crops.

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Performance criteria

- You must be able to:*
- P1 assess the risks associated with the site and the required activity
 - P2 identify areas of potential cross contamination
 - P3 establish measures to maintain suitable levels of hygiene and bio-security
 - P4 identify different novel crops and the types of seed/grain
 - P5 ensure all legislative requirements are met
 - P6 identify the most appropriate separation method for type of crop e.g. physical barrier or separation distance
 - P7 manage soil seed banks
 - P8 ensure all machinery is clean and decontaminated
 - P9 manage harvesting methods to avoid cross contamination
 - P10 ensure storage area is clean and free from contamination which might effect the quality of the crop
 - P11 ensure crop is stored in a suitable area and kept separate from other crops
 - P12 establish measures for the recycling or disposal of waste in accordance with legal and organisational requirements
 - P13 ensure working methods promote health and safety and are consistent with relevant legislation and codes of practice
 - P14 ensure appropriate records are maintained as required by relevant legislation and the organisation

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Knowledge and understanding

You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 the importance of carrying out an environmental assessment of the site before starting work and the findings which may affect proposed activity
- K4 the reasons and requirements for growing novel crops
- K5 methods of maintaining hygiene and bio-security and the reasons why it is important
- K6 how physical barriers can prevent pollen movement
- K7 what effect different barriers have
- K8 size of pollen and source
- K9 recommended separation distances for different crop types
- K10 potential effects of different pollens
- K11 how to manage current and relevant legislation which may impact on the growing of novel crops
- K12 how to manage cooperation with neighbouring farms
- K13 how cultivation and drilling times help control potential cross pollination
- K14 management (control) of volunteers in subsequent crops in any rotation including, seed, tubers and roots
- K15 which crops are sexually compatible with other crops/weeds
- K16 the importance of cleaning all equipment
- K17 actions to take when harvesting the crop to avoid cross contamination
- K18 the importance of cleaning all storage and transfer areas
- K19 the potential impact of adventitious presence (cross contamination)
- K20 the legal and organisational requirements for the handling, transporting and disposal of waste
- K21 your responsibilities under relevant environmental and health and safety legislation, codes of practice and company policies
- K22 appropriate records to be kept and their significance

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Glossary

Sustainable agriculture: Meeting the requirements for food production while maintaining profitability and preserving the environment

Novel crops include:

- Hear oilseed rape
- Holl oilseed rape
- GM crops
- Other HT (herbicide tolerant) crops

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