

LANAgC9

Analyse samples to identify seeds, pests, diseases and disorders



Overview

This standard covers the identification of seeds, pests, diseases and disorders from analysis of samples in a laboratory environment. You will be expected to select and use relevant knowledge, skills and procedures to complete well-defined tasks. You will be required to work to the relevant workplace procedures, legislation and organisational policy and use good scientific or technical techniques to aid identification.

You will understand the safety precautions required for working in a laboratory and demonstrate safe working practices throughout.

Carrying out laboratory testing techniques is covered in the LATA NOS developed by SEMTA.

This standard is suitable for those working in a laboratory environment in the land-based and environmental sector.

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Performance criteria

<i>You must be able to:</i>	P1	carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies
	P2	use safe practices and the appropriate personal protection equipment when doing scientific or technical activities
	P3	maintain suitable levels of hygiene and bio-security
	P4	establish reasons for analysis and identification of seed, pests, diseases and disorders
	P5	obtain and prepare material/seed samples for analysis and identification
	P6	conduct analysis on samples in accordance with correct procedures and techniques
	P7	carry out further analysis or testing where necessary to confirm identification
	P8	record the results in accordance with workplace procedures
	P9	deal with waste safely and correctly in accordance with workplace procedures and legislation
	P10	return and store equipment and materials to the correct location
	P11	communicate the required information on identification to the appropriate person in accordance with organisational procedures.

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Knowledge and understanding

You need to know and understand:

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| K1 | your responsibilities under relevant environmental and health and safety legislation, codes of practice and company policies |
| K2 | the importance of wearing appropriate personal protective equipment when doing scientific or technical activities |
| K3 | the importance of maintaining hygiene and bio-security during scientific or technical activities, and the methods for achieving this |
| K4 | different methods used to analyse and identify seeds, pests, diseases and disorders |
| K5 | reasons for carrying out analysis and identification of seeds/materials |
| K6 | the minimum size/volume of sample required for identification |
| K7 | how to establish if a sample is suitable for identification |
| K8 | workplace policies and procedures relating to the identification of seeds, pests, diseases and disorders |
| K9 | how to name seeds, pests, diseases and disorders correctly in line with naming convention |
| K10 | where to obtain and how to use sources of information to aid identification |
| K11 | further tests which may be required to confirm identification |
| K12 | the format for reporting and communicating findings |
| K13 | the types of equipment used and correct procedures for storage |
| K14 | the legal and organisational requirements for the handling, transport, storage and disposal of waste |

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Glossary

Identification: purity tests, germination tests
Diseases may be fungal, viral or bacterial.
Disorders may include nutrient deficiencies (e.g. nitrogen or calcium deficiencies).
Samples may be: seeds, plant material, animal material

Links to other NOS

This NOS standard links to the SEMLATA
SEMLATA2-12
SEMLATA 14
SEMLATA3-03

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