



Australian Government

Department of Education, Employment and Workplace Relations

SUGPPST2A Perform standard tests

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to analyse samples for cane payment and routine factory control. Tests are typically routine, repetitive procedures based on defined methods and require interpretation of results within clearly defined guidelines.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

Element	Performance criteria
1. Prepare for testing	1.1 Testing requirements and methods are identified 1.2 Testing equipment is confirmed as available and fit for use 1.3 Test chemicals and reagents are prepared and labeled as required by test method 1.4 Samples are prepared as required by test method 1.5 Pre-test checks are conducted and recorded according to workplace recording requirements
2. Conduct test	2.1 Conduct test in accordance with test method and test schedule 2.2 Identify and report atypical test results 2.3 Record and communicate test results as required 2.4 Follow procedures to repeat or validate results 2.5 Clean, care for and store equipment as required 2.6 Dispose of waste materials according to workplace procedure
3. Record test data in laboratory information system	3.1 Results are entered into laboratory information systems according to workplace procedure 3.2 Correct data entry errors 3.3 Store and retrieve data in the laboratory information system 3.4 Produce standard reports from laboratory information system

Required Skills and Knowledge

Not applicable.

Evidence Guide

Evidence guide

The assessment process must address all of the following items of evidence.

Ability to:

1. Access workplace information such as the test regime to identify test requirements and methods
2. Select, fit and use personal protective clothing and/or equipment
3. Confirm that necessary test equipment, chemicals and reagents are available and fit for purpose
4. Confirm or conduct routine equipment calibration according to workplace procedures, methods and legislative requirements
5. Handle chemicals safely. This includes following correct handling and preparation procedures and use of appropriate protective clothing and equipment
6. Demonstrate test procedures according to test schedule and test method
7. Identify and report any out-of-specification results
8. Communicate test results to relevant personnel
9. Maintain and store chemicals, reagents and test equipment required
10. Sort, collect, treat, recycle or dispose of tested materials
11. Record information in the laboratory information system. This includes ability to retrieve, enter and edit data, generate standard reports and store information
12. Maintain work area to meet housekeeping standards

Knowledge of:

13. Purpose of the test procedure. This includes a basic understanding of the principles of the test method and of equipment used
14. Awareness of legislative requirements relating to cane payment tests
15. Terminology relating to the types of tests and related methods used
16. Safe work procedures including hazards associated with specific test procedures requirements such as working with chemicals and test equipment
17. Specific test methods/procedures
18. Requirements to communicate out-of-specification results
19. Typical causes of out-of-specification results and procedure for repeating the analysis
20. Laboratory information system recording and reporting requirements. These meet legislative record keeping requirements and workplace requirements.

Relationship with other standards

Pre-requisite units

There are no pre-requisite units for this competency standard.

Co-assessment of related units

Other units of competency relevant to the work role should be assessed in conjunction with this unit.

Resources required for assessment

Assessment must occur in a real or simulated workplace where the assessee has access to:

- Test equipment, chemicals and reagents and related equipment
- Materials to be tested
- Test methods and procedures
- Personal protective clothing and equipment

- Communication systems and equipment
- Housekeeping standards and procedures
- Sample labeling and recording systems, requirements and procedures
- Laboratory recording and reporting system

Assessment requirements

For information on how to assess this competency standard and who can assess, refer to the Assessment Guidelines for this Training Package.

Range Statement**Range statement**

The range statement indicates the context for demonstrating competence. This statement is a guide and unless otherwise indicated, items may or may not apply as required by the work context.

- Work is carried out in accordance with company policies and procedures, manufacturer's recommendations, legislative requirements, codes of practice and industrial awards and agreements. Codes of practice include the Sugar Milling Operations Industry Code of Practice.
- Workplace information can include Standard Operating Procedures (SOPs), specifications, test methods and procedures
- Equipment is defined by test method and legislative requirements
- Confirming equipment condition may include conducting calibration procedures. Calibration procedures are routine, documented procedures
- Tests are typically routine, repetitive procedures based on defined methods and requiring interpretation of results within clearly defined guidelines
- The types of tests conducted depends on the test equipment and methods used and may include but are not limited to:
 - bagasse analysis - pol by disintegrator method and moisture
 - sugar analysis - pol and moisture
 - juice analysis - clarified juice, first expressed juice and mixed juice - pH, turbidity, brix and pol
 - mud analysis - pol and moisture
 - molasses massecuite syrup - brix, pol, apparent purity
 - drain water analysis - sugar presence by an industry-recognised method
- Work may require the ability to work within a team environment
- Information systems may be print or screen based
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Unit Sector(s)

Not applicable.