



Australian Government

Department of Education, Employment and Workplace Relations

SUGZPC2A Operate a process control interface

Revision Number: 1

SUGZPC2A Operate a process control interface

Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This is a Specialist unit. It covers the skills and knowledge required to operate a computer-based interface to modify and/or interrogate a control system.

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. Navigate the process control interface	<ul style="list-style-type: none">1.1 Confirm that the control interface and related components are ready for operation1.2 Use hardware provided to operate the interface1.3 Use page links to move between screens1.4 Acknowledge messages and alarms1.5 Access required information from screen displays1.6 Record and report interface system malfunctions in accordance with workplace procedures
2. Use interface system to operate and maintain a process within required parameters	<ul style="list-style-type: none">2.1 Start up, monitor and shut-down individual items of equipment and/or processes using the control interface2.2 Select equipment and alter equipment status, set points or settings to meet operating requirements2.3 Activate sequences to initiate process operation2.4 Recognise equipment giving a bad signal or bad measurement and take responsive action
3. Analyse data to predict and control performance	<ul style="list-style-type: none">3.1 Select and analyse trends to identify performance patterns3.2 Identify causes of abnormal or unacceptable performance and take corrective action3.3 Record information as required

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. Use all hardware components to operate the control interface
2. Navigate the system to locate and use information required. This includes moving between screens and locating relevant performance data
3. Operate the control system using the interface. This includes ability to start up and shut down equipment components and change set points as required
4. Locate sensors and instrumentation providing input signals to the control system and confirm operating order within level of responsibility
5. Recognise and respond to error messages and alarms as required
6. Access relevant performance data using the control system. This includes locating and interpreting performance trend information

May include the ability to:

7. Record log information using the interface system

Knowledge of:

8. Processes and equipment being controlled. This includes required processing sequences
9. Operating principles of process control and interface system. This includes the relationship between control panels and systems and the physical equipment. It also includes understanding of operating conditions required for accurate information input from sensors and related instrumentation
10. Action required to respond to error messages and alarms
11. Typical faults that can occur when operating a process control interface and corrective action required
12. Performance data collected by the control interface system and its application to troubleshoot performance. This includes the ability to identify and investigate related trend data to track cause and effect
13. Recording requirements and responsibilities

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. This includes the relevant operational unit/s for the process being controlled.

Resources required for assessment

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

- Process control interface hardware and software
- Work station or equipment to be controlled
- Operating procedures and related advice on equipment operation
- Process to be controlled
- Communication systems and equipment
- Workplace information recording systems, requirements and procedures

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) and manufacturer's specifications
- Information accessed may include graphics, trends, parameter settings, alarms and individual plant item status
- Work may require the ability to work within a team environment
- A computer-based interface may consist of computer processor, monitor, keyboards, track ball, mouse, storage devices and printers. It is linked to the process control system
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Unit Sector(s)

Not applicable.