



Australian Government

PPMCSK301 Operate process control equipment

Release: 1

PPMCSK301 Operate process control equipment

Modification History

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to operate process control equipment in a pulp and/or paper manufacturing facility.

The unit applies to production operators and technicians who access, monitor and control process control equipment, including responding to process variations and problems involved in working within an operating environment with complex integrated equipment and continuous operations.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Computer/Process Control Equipment (CSK)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Access and navigate control system	1.1 Receive and give shift handover 1.2 Identify, control and report safety risks and hazards 1.3 Identify and check operational status of control system 1.4 Use control screens to access control system 1.5 Navigate control system to meet job and specifications requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Monitor and control process	2.1 Monitor key variables frequently using control screen/s to check process status 2.2 Make equipment adjustments using process control systems according to operating and workplace health and safety procedures
3. Respond to process variations and problems	3.1 Identify process variations through faulty signals 3.2 Adjust equipment in response to process variations and alarms and specifications requirements 3.3 Report process variations according to organisational procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret information from a range of workplace documentation including standard operating procedures, operation manuals, checklists, drawings and signage
Writing	- Record shift data using log books or computer systems - Record equipment malfunctions and product or part deviations using clear language and industry terminology
Communication	Respond to non-verbal signals, including hand signals and alarms
Numeracy	- Interpret numerical readings on instruments and gauges - Interpret symbols used in process controls

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMCSK301 Operate process control	PPMCSK310 Operate process control	Changes to performance criteria, foundation skills,	Not equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
equipment	equipment	performance evidence and knowledge evidence Assessment conditions updated	

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

Assessment Requirements for PPMCSK301 Operate process control equipment

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has safely operated process control equipment for at least two operational intervals, associated with one of the following integrated systems:

- primary resources processes
- waste paper handling processes
- waste paper operations processes
- pulping processes
- chemical recovery systems
- stock preparation systems
- wet end processes
- dry end processes
- finishing and converting processes
- warehousing and dispatch processes
- water services processes
- steam generation processes
- electrical power generation processes.

In completing the above, there must also be evidence that the individual has, for each interval:

- conducted a risk assessment and applied control measures
- monitored key variables during the operation of process control equipment, including:
 - speed
 - output rate
 - product integrity and general conformance to specification
- accessed and navigated control systems
- made process adjustments to respond to variations and problems.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- procedures, regulations and workplace requirements relevant to operating process control equipment, including:
 - computer-controlled machine operating procedures
 - workplace health and safety requirements, and the use of personal protective equipment in relation to handling materials, equipment operation and clean-up
 - hazard identification and control procedures
 - standard operating procedures
 - isolation procedures
 - procedures for identifying and reporting equipment malfunctions, and product or part deviations
- risk management using the hierarchy of controls applied to the operation of computer-controlled machines and processes
- symbols used in process controls
- materials, equipment and process sufficient to recognise material and equipment conditions that may lead to out-of-specification production
- effect of adjustments on part or product specifications.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computer systems
 - electronic screens and alarms
 - process control equipment and systems
 - analogue and digital instrumentation
 - personal protective equipment for operating process control equipment.
- specifications:
 - workplace and operating procedures relevant to operating process control equipment, and workplace health and safety requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>