



Australian Government

MSTGN4021 Manage technical processes

Release: 1

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Modification History

Release 1. Unit Code and Application changed. Elements and Performance Criteria simplified with Element 1 removed. Foundation Skills field populated. Range of Conditions removed. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is equivalent to MSTGN4013 Manage technical processes.

Application

This unit describes the skills and knowledge required to manage technical processes, particularly in preparing chemicals, monitoring production stages and measuring specified process parameters for products such as hide, skin and leather, fibres, yarns or fabrics.

This unit applies to individuals who use judgement to plan and select appropriate processes or procedures for self and others.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Generic

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to manage technical processes	1.1 Interpret resources and procedural requirements of technical processes from work documentation 1.2 Confirm schedules and technical resources with relevant personnel 1.3 Clarify and comply with process and work health and safety requirements 1.4 Allocate roles and responsibilities for work activities according to technical process requirements
2. Implement technical processes	2.1 Monitor technical process and provide guidance to others when need is indicated 2.2 Monitor process parameters to ensure conformance to requirements and make required adjustments 2.3 Monitor safety associated with the process and take action in

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	response to safety issues
3. Resolve process problems	3.1 Facilitate meetings or discussions to identify methods to solve process problems 3.2 Use knowledge of process improvement and technical systems to systematically identify and resolve process problems 3.3 Identify, recommend and document preferred option to resolve the problem 3.4 Facilitate implementation of the recommended problem resolution option
4. Monitor process improvements and variations	4.1 Monitor process improvements and variations to ensure outcome meets specifications, production schedule and workplace requirements 4.2 Collate and analyse data to evaluate the effectiveness of process improvements or variations 4.3 Record and report outcomes to relevant personnel in accordance with workplace practices

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret diverse types of production and workplace documentation
- Writing skills to complete workplace reports involving factual information
- Oral communication skills to facilitate workplace discussions.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Supersedes and is equivalent to MSTGN4013 Manage technical processes.

Links

Companion Volume implementation guides are found in VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

Assessment Requirements for MSTGN4021 Manage technical processes

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- manage technical processes across two different production periods.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- safe work practices and procedures and use of personal protective equipment), including those related to use of chemicals
- relevant Australian Standards
- technical processes of relevant sector and associated equipment and resources, including:
 - types of chemical processes
 - types of technical process parameters
- characteristics of raw materials and their properties relevant to the sector
- production monitoring processes and procedures
- problem solving processes and procedures
- reporting and documentation processes and procedures.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - a fully-equipped production facility
 - materials for processing
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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