



Australian Government

Department of Education, Employment and Workplace Relations

LMTGN4008A Analyse product and determine machine settings

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to identify and specify product and material characteristics and to specify machine settings and modifications for product change.

Application of the Unit

Application of the Unit

This unit applies to examining sample material and product characteristics and determining required machine settings or modifications.

Discretion and judgment may be required, for both self and others, in planning and selecting processes, procedures or outcomes.

Products and materials include those typically used within each sector of the Textile, Clothing, Footwear and Allied industry sectors.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

The unit is applied according to OHS and workplace practices of the enterprise, which may include:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- standard operating procedures
- work instructions
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling

This unit requires the application of skills associated with communication to interpret apply and document technical information and perform calculations. This unit also requires a problem solving and planning and organising skills to determine appropriate settings to achieve specified outcomes.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
1 Analyse product	1.1 Pattern or product specifications are analysed 1.2 Measuring or testing equipment is prepared and used as required to identify characteristics or specifications of product and material 1.3 Product and material specifications are analysed to determine production parameters
2 Analyse machine requirements	2.1 Machine requirements and limitations are determined relative to required specifications 2.2 OHS practices associated with machine specifications are determined 2.3 Product and material specifications are translated into machine settings and configurations
3 Specify machine settings and modifications	3.1 Modification requirements are established and approved, where required, to meet specified outcomes 3.2 Modifications or adaptations are assessed in accordance with relevant procedures and specifications 3.3 Machine modifications are evaluated and results confirmed against requirements 3.4 Machine settings and modifications are checked against specification prior to machine setting 3.5 Machine settings and modifications are recorded and communicated to appropriate team members

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit

Demonstrates knowledge of:

- material and product characteristics
- measuring, calculating and testing procedures
- machine and equipment specifications and settings
- setting and adjustment requirements
- technical specifications manuals
- safety and environmental aspects of relevant workplace processes
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- calculate and interpret technical data
- test and analyse samples
- set and operate machines
- document, assess and transfer information
- read, interpret and follow information on work specifications, standard operating procedures and work instructions and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Employability Skills Statement, Elements and Performance Criteria, Range Statement and Assessment Guidelines for this Training Package.

Critical aspects of evidence to be considered	Demonstrates skills and knowledge to: • determine machine or product requirements and limitations • analyse pattern and product specifications • interpret specifications for machine settings • determine machine settings • carry out modifications or customisation • maintain accurate records • apply OHS practices in work operations
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks • identifying improvements • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment used and work processes • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions • completing work systematically with attention to detail without damage to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.

Machine settings may include:

- mechanical devices, tools such as cams, gears, trip tags, pin boards
- microprocessor and computer controlled machines

OHS practices OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may include:

- manual handling techniques
- standard operating procedures
- personal protective equipment
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- other OHS practices relevant to the job and enterprise

Unit Sector(s)

Sector All