



Australian Government

Department of Education, Employment and Workplace Relations

LMTGN4012A Fabricate or machine tooling

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to fabricate and machine tooling for applications within an enterprise.

Application of the Unit

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This unit applies to activities associated with the forming and shaping of tools. Discretion and judgement may be required, for both self and others, in planning and selecting processes, procedures or outcomes.

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures under direct supervision.

This unit is applied according to workplace and OHS 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/section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling

This unit requires the application of skills associated with communication, in interpreting tool specifications and planning and organising for safe and effective use of specialised tool technology and operations.

This unit also requires an ability to check the quality of outcomes and to identify and address problems relating to own work.

Initiative, enterprise and problem solving will be used to combine materials and processes to achieve desired design 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

ELEMENT	PERFORMANCE CRITERIA
1 Determine tooling requirements	1.1 Tooling requirements, measurements and limitations are determined relative to design specifications provided 1.2 Clarification related to tooling application is sought, where required
2 Select and set up equipment for operation	2.1 Appropriate machines and equipment are selected for the tasks 2.2 Machines and equipment are prepared and adjusted as necessary for operation according to standard operating procedures
3 Form or shape tool	3.1 Tooling material is selected, marked or otherwise prepared for fabrication and machining 3.2 Allowances are made for shrinkage, thicknesses, templates, gauges and inside or outside measurements where required 3.3 Fabrication or machining procedures are assessed in accordance with OHS practices and workplace procedures 3.4 Completed tooling is checked for conformance to design specifications

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:

- procedures for set up and operation of machinery
- procedures for forming and shaping
- relevant standards
- quality requirements
- materials used in footwear production
- safety and environmental aspects of relevant enterprise activities
- workplace procedures and reporting processes
- relevant OHS legislation and codes of practice
- OHS practices, including hazard identification and control measures
- recording and reporting practices

Demonstrates skills to:

- apply appropriate technical skills
- check outcomes against quality standards and specifications
- monitor performance
- apply relevant safety practices when working in the industry
- maintain records, document and transfer information
- read, interpret and follow information on work specifications, , standard operating procedures and work instructions and other reference material
- 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 Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence to be considered	Demonstrates skills and knowledge to: • establish tooling requirements • operate machines or equipment appropriately • fabricate or machine tooling accurately • liaise with engineer or external supplier • communicate effectively with design team, customers, etc. • apply workplace health and safety policies in work operations • maintain accurate records
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.

Tooling may include:

- cutting knives
- punch dies

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