



Australian Government

Department of Education, Employment and Workplace Relations

LMFFT5013B Develop products and related processes

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to define requirements, to confirm feasibility, to develop and trial options and to analyse and report on proposed products and related processes.
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</p>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Assess product feasibility	1.1. Provisional specifications are identified and interpreted, in consultation with others, where required 1.2. Provisional specifications are subject to feasibility modelling and analysis 1.3. Recommendations from the feasibility study are processed
2. Participate in developing/engineering prototype product	2.1. Product or process specifications are interpreted and/or preliminary specifications are developed from the feasibility study 2.2. Specifications are used to develop or engineer the prototype product 2.3. Results are analysed and decisions to move to a trial are confirmed
3. Conduct trials	3.1. Trial procedures/parameters are established and recorded 3.2. Organisation and liaison issues with production areas are resolved 3.3. Raw materials are checked or selected and machines and skill availability allocated against requirements 3.4. Trials are carried out in accordance with the established procedures
4. Analyse, interpret and report results	4.1. Results of the trials are analysed to determine performance and acceptability for production 4.2. Variations and improvements necessitated by the findings are recorded and/or trialed 4.3. Reports and recommendations are prepared and processed in accordance with enterprise procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- research, collect, organise and understand information related to product and process development, including the relevant technical, regulatory, cultural, environmental and safety requirements
- communicate ideas and information to enable clarification of the requirements, coordination of work with managers, supervisors, team members and customers, and the reporting of work outcomes and findings
- plan and organise activities, including the allocation and coordination of functions and the obtaining of equipment, systems and materials to avoid any backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches
- use mathematical ideas and techniques to correctly complete calculations required to support the product development and to estimate flow and material requirements
- create and apply systematic problem solving techniques to anticipate development problems, avoid re-working and wastage
- use the workplace technology related to development, including machinery, tools and equipment, calculators and measuring devices and computing/computer-aided project management systems

Required knowledge

- intellectual property obligations and codes of practice
- products and process development processes and procedures
- team management and coordination processes
- recording and reporting processes (as they may apply in the enterprise)
- safety and environmental aspects of relevant enterprise activities
- technical background relevant to the sector

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence

- Apply safety requirements throughout the work sequence, including the use of personal protective clothing and equipment
- Either individually or as part of a multi-disciplinary team develop a significant product and related processes, including to:
 - interpret/develop specifications
 - conduct feasibility studies
 - produce prototype
 - organise/conduct trials
 - assess results against specifications
 - communicate effectively with development team and customers
 - prepare reports/presentations
- Work effectively with others

Resource implications

Access to real or appropriately simulated situations requiring the development of products and related processes

This includes real or simulated work areas, materials, equipment, and information on work specifications, relevant safety procedures and regulations, quality standards, organisation procedures and customer requirements.

Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and/or samples of work and questioning on underpinning knowledge.

Assessment should be conducted over time and may be in conjunction with assessment of other units of competency.

Context of assessment

Assessment may occur on the job or in a simulated workplace facility with relevant equipment, simulated

EVIDENCE GUIDE	
	work instructions and deadlines.

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. 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) may also be included.

Unit scope

- Work involves activities contributing to development of products or processes within the enterprise
- The competency may involve applications associated with original creation, adaptation of designs or interpretation of sketches within contexts related to single or multiple production runs
- Activities may include: work allocation, reviewing/evaluating processes and products, liaising with relevant personnel, client and/or other functional areas

Unit context

- OHS requirements include legislation, building codes, material safety management systems, hazardous substances and dangerous goods codes and safe operating procedures
- Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, authorised handling procedures and organisation insurance requirements
- Work requires individuals to demonstrate conceptual and analytical ability, discretion, judgement and problem solving skills

Work responsibilities will vary in scope according to:

- size of the workplace
- range of designs
- specialisation in the workplace and workplace quality standards

The competency is used independently within routine and non-routine situations.

Information and procedures

- Work specifications
- Provisional product specifications and design brief
- Provisional marketing strategies

RANGE STATEMENT	
	<ul style="list-style-type: none"> • Organisational work procedures • Manufacturers' technical specifications • Legislation/regulations/national and industry codes and practices relevant to the product • Quality and Australian standards and procedures

Unit Sector(s)

Unit sector	Furnishing Technology
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		