



Australian Government

MEM30016 Assist in the analysis of a supply chain

Release: 1

MEM30016 Assist in the analysis of a supply chain

Modification History

Release 1. Supersedes and is equivalent to MEM30016A Assist in the analysis of a supply chain.

Application

This unit of competency defines the skills and knowledge required to assist in the analysis of value adding and non-value adding activities within the supply chain, including assisting in mapping the supply stream for a nominated product/process and assisting in assessing the value added at each step. The supply stream encompasses raw materials, processing and all tiers of the supply chain.

The unit applies to engineering or related activities and is suitable for people giving technical support in manufacturing or engineering operations and those pursuing technical qualifications and careers at paraprofessional or technician level. All work is carried out under supervision.

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

Pre-requisite Unit

Nil

Competency Field

Engineering technician

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. Assist in mapping the supply stream for product or process	1.1. Follow standard operating procedures (SOPs) and comply with work health and safety (WHS) requirements at all times 1.2. Identify all organisations in the supply stream including the entire supply system, beginning with the raw materials, processing and all tiers of the supply chain 1.3. Identify all relevant steps in own organisation
2. Assist in assessing the	2.1. Identify value added and contributed by each supplier organisation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
value added at each step	2.2. Identify value added by each internal step by measuring its contribution to features and customer benefits in accordance with enterprise definitions 2.3. Identify activities which do not add value, including excess production and early production, delays, movement and transport, poor process design, inventory, inefficient performance of a process and making defective items 2.4. Liaise with external and internal supply chain members to identify methods to reduce non-value adding activities 2.5. Collate and assess information 2.6. Record suggestions for improvements and submit for approval

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Supply stream includes:	- raw materials - processing and production - delivery - return.
Value added includes:	- customer benefits - product features - company definitions.
Non-value adding activities include:	- excess production and early production - delays - movement and transport - poor process design - inventory

	• inefficient performance of a process • making defective items.
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Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM30016A Assist in the analysis of a supply chain.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>

Assessment Requirements for MEM30016 Assist in the analysis of a supply chain

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- identifying all organisations in the supply stream
- assisting in mapping the supply stream for a product or process on at least two occasions
- identifying the value added and contributed by each supplier organisation on at least two occasions.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- components of a supply stream or system
- purpose of supply chain analysis
- methods of supply chain analysis
- types of waste, non-value adding activities and methods of reducing them including:
 - excess production and early production
 - delays
 - movement and transport
 - poor process design
 - inventory
 - inefficient performance of a process
 - making defective items
- process used to make own product
- processes employed by other members of the supply chain to enable meaningful dialogue with them
- safe work practices.

Assessment Conditions

- Assessors must:
 - have vocational competency in assisting in the analysis of a supply chain at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the Standards for Registered Training Organisations 2015 or its replacement and comply with the National Vocational Education and Training Regulator Act 2011, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
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