



Australian Government

MSS403026 Work within a constrained process

Release: 1

MSS403026 Work within a constrained process

Modification History

Release 1. Unit code changed. Application changed. Elements changed. Performance Criteria changed. Foundation Skills populated. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to MSS403024 Work within a constrained process.

Application

This unit describes the skills and knowledge required to apply the theory of constraints to a process or system which has a constraint.

This unit applies to operators, team leaders, technicians or others who are required to identify constrained resources within their area of responsibility and determine buffers and schedules to manage the capacity and throughput of the constrained resource.

This unit applies to any organisation that is implementing continuous improvement or more formal competitive systems and practices.

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

Competitive systems and practices

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. Identify the system constraint (bottleneck)	1.1 Identify desired output from process or system 1.2 Determine throughput of process or system steps 1.3 Identify capacity-constrained resource 1.4 Confirm optimum throughput for this capacity-constrained resource
2. Manage capacity-constrained resource (drum)	2.1 Determine required time buffers for capacity-constrained resource 2.2 Translate time buffer into physical and/or process buffers 2.3 Establish required buffers 2.4 Examine capacity-constrained resource to ensure optimum use of capacity

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
3. Determine schedule based on capacity-constrained resource	3.1 Determine supply schedule appropriate for capacity-constrained resource 3.2 Determine delivery schedule based on capacity of capacity-constrained resource 3.3 Compare delivery schedule with externally required delivery rate 3.4 Take action to improve alignment between process or system and buffers and schedules
4. Examine operation of system or process	4.1 Determine throughput of process or system steps 4.2 Identify any additional and/or new capacity-constrained resource 4.3 Apply theory of constraints in continuous improvement cycle

Foundation Skills

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

- Oral communication skills to discuss process constraints and improvements with range of stakeholders
- Numeracy skills to determine throughput capacity, buffers and schedules.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS403024 Work within a constrained process.

Links

Companion Volume Implementation Guides are found in VETNet – -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>

Assessment Requirements for MSS403026 Work within a constrained process

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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:

- identify, and improve capacity of, at least 2 constrained resources.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- theory of constraints including:
 - weakest link (colloquially may be called the drum)
 - duration or time taken for work to reach the constraint
 - supporting the constraint (colloquially may be called buffer or inventory)
 - release timing and/or mechanism of buffer (colloquially may be called rope)
- identifying throughput capacity
- processes, products, internal and external customers for own work area.
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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:
 - access to relevant data
- modelling of industry operating conditions.

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

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