



Australian Government

MSS405021 Develop a Just in Time system

Release: 1

MSS405021 Develop a Just in Time system

Modification History

Release 1. Supersedes and is equivalent to MSS405021A Develop a Just in Time system

Application

This unit applies to an individual responsible for planning and implementing a Just in Time (JIT) system. It includes consulting with employees, suppliers and customers regarding the change. This may require identification of training and other employee support as well as identifying possible logistical support.

The unit includes kanban-based JIT systems but also applies to other sectors and systems where a traditional kanban-type JIT may not be suitable through the unit's coverage of JIT principles.

This unit requires the application of skills associated with communication in gathering, analysing and applying information, consulting with stakeholders, problem solving, and demonstrating initiative and enterprise. This unit also requires aspects of self-management and learning to ensure feedback and new learning is integrated into the JIT design.

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

Pre-requisite Unit

Nil

Competency Field

Competitive systems and practices

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|--|------------|---|
| 1 Design the JIT system/system improvements | 1.1 | Identify value chain members. |
| | 1.2 | Consult with internal and external value chain members. |
| | 1.3 | Identify current storage/inventory in value chain. |

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| | | 1.4 | Determine flow authorisation indicators. |
| | | 1.5 | Determine minimum and maximum operations rate. |
| | | 1.6 | Determine lead time for product or service. |
| | | 1.7 | Determine number of units per kanban. |
| | | 1.8 | Draft workable procedures to implement JIT. |
| 2 | Implement the JIT system/improvements | 2.1 | Consult with key internal stakeholders to develop solutions to JIT issues. |
| | | 2.2 | Ensure all stakeholders have required JIT-related skills and related issues have been resolved. |
| | | 2.3 | Liaise with key external members of the value chain to develop solutions to JIT issues. |
| | | 2.4 | Develop implementation plan for JIT. |
| | | 2.5 | Determine key measures of JIT. |
| 3 | Monitor the JIT system | 3.1 | Monitor key measures of JIT. |
| | | 3.2 | Regularly liaise with key stakeholders seeking areas for improvement. |
| | | 3.3 | Identify areas in need of improvement. |

Foundation Skills

This section describes those required skills (language, literacy and numeracy) 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.

Competitive systems and practices include one or more of:

- lean operations
- agile operations
- preventative and predictive maintenance approaches
- statistical process control systems, including six sigma and three sigma
- JIT, kanban and other pull-related operations control systems
- supply, value, and demand chain monitoring and analysis
- 5S
- continuous improvement (kaizen)
- breakthrough improvement (kaizen blitz)
- cause/effect diagrams
- overall equipment effectiveness (OEE)
- takt time
- process mapping
- problem solving
- run charts
- standard procedures
- current reality tree.

Procedures (written, verbal, visual, computer based, etc.) include one or any combination of:

- work instructions
- standard operating procedures (SOPs)
- safe work method statements
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Key measures include one or more of:

- inventory levels
- lead time
- in full, on time and in specification (IFOTIS) delivery
- productivity/production rate
- other measures of pull through the value chain
- quality.

Unit Mapping Information

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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 MSS405021 Develop a Just in Time system

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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 the ability, for one (1) or more JIT systems, to:

- develop a complete JIT system
- provide training and support for employees and value chain members
- communicate and negotiate complex issues to a wide variety of individuals
- supervise JIT implementation and suggest improvements.

Knowledge Evidence

Must provide evidence that demonstrates sufficient knowledge to interact with relevant personnel and be able to develop a JIT system, including knowledge of:

- needs of internal and external value chain members
- principles of JIT
- reasons for delays/storages/inventories in the value stream and methods of reducing/eliminating them
- methods of identifying and filling skill gaps
- key business objectives associated with implementing JIT
- principles of the operational processes relevant to the JIT implementation
- production data generated by the process and its application to JIT.

Assessment Conditions

- The unit should be assessed holistically and the judgement of competence shall be based on a holistic assessment of the evidence.
- The collection of performance evidence is best done from a report and/or folio of evidence drawn from:
 - a single project which provides sufficient evidence of the requirements of all the elements and performance criteria
 - multiple smaller projects which together provide sufficient evidence of the requirements of all the elements and performance criteria.
- A third-party report, or similar, may be needed to testify to the work done by the individual, particularly when the project has been done as part of a project team.
- Assessment should use development of an actual JIT system in an operational workplace.

- Knowledge evidence may be collected concurrently with performance evidence or through an independent process such as workbooks, written assessments or interviews (provided a record is kept).
- 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.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- The assessor must demonstrate both technical competency and currency.
- Technical competence can be demonstrated through:
 - relevant VET or other qualification/Statement of Attainment AND/OR
 - relevant workplace experience
- Currency can be demonstrated through:
 - performing the competency being assessed as part of current employment OR
 - having consulted with an organisation providing relevant environmental monitoring, management or technology services about performing the competency being assessed within the last twelve months.

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