MSS405021 Develop a Just in Time system

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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.	
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.

		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.

Manufacturing Industry Skills Alliance

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

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