



Australian Government

MSS403032 Analyse manual handling processes

Release: 1

MSS403032 Analyse manual handling processes

Modification History

Release 1. Supersedes and is equivalent to MSS403032A Analyse manual handling processes

Application

This unit of competency covers the skills and knowledge required to analyse manual handling in terms of its efficiency and safety.

This unit applies to an individual who is required to examine the manual handling component of a job and improve it in terms of safety, effort required and efficiency. This may be conducted for a job performed by others or it may be for the person's own job.

This unit primarily requires the application of skills associated with problem solving, initiative and enterprise to identify safe and efficient manual handling, and planning and organising to ensure processes are implemented. This unit also requires communication with, and involvement of, others to ensure they understand the approach and to facilitate training.

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 | Assess manual handling risks | 1.1 | Identify manual handling hazards in work area. |
| | | 1.2 | Assess risks arising from manual handling hazards. |
| 2 | Analyse physical | 2.1 | Determine basic manual handling requirements of job. |

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| effort requirements of job | 2.2 | Analyse requirements in terms of components, such as lift, move, place and hold. |
| | 2.3 | Analyse items to be handled in terms such as weight, size, shape or other hazards. |
| 3 Determine time/effort components of physical effort | 3.1 | Break required movement pattern down into movement components. |
| | 3.2 | Determine time and effort requirements for movements. |
| | 3.3 | Develop alternative movement patterns. |
| | 3.4 | Determine time and effort requirements for alternative movements. |
| | 3.5 | Determine handling aids required to assist movement. |
| | 3.6 | Determine preferred movement pattern. |
| 4 Analyse the ergonomics of physical effort | 4.1 | Analyse the ergonomics of the preferred movement pattern. |
| | 4.2 | Develop substitute movements for any movement which is not ergonomically sound. |
| | 4.3 | Determine handling aids required to improve ergonomics of required movements. |
| 5 Optimise application of physical effort | 5.1 | Select movement patterns which are ergonomically sound and time and effort efficient. |
| | 5.2 | Ensure all relevant people are trained to use these methods. |
| | 5.3 | Ensure procedures and practices reflect the optimum methods. |
| | 5.4 | Communicate with team members and involve them in development of alternatives to ensure awareness and facilitate learning. |

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
 - Just in Time (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 more 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.

Manual handling hazards include one or more of

- loads that pose a risk of injury
- ergonomically unsound movements
- hazard requirements as defined by relevant work health and safety (WHS) Acts and regulations, industry standards and best practice.

Ergonomically unsound movements include one or more of

- awkward and repetitive movements
- carrying, pushing, pulling or lifting of heavy loads
- carrying or movement of hard, sharp, slippery or other difficult to grasp loads.

Ergonomically sound movements include one or more of

- keeping loads close to the body and near the person's centre of gravity
- using diagonal foot positions for lifting
- moving loads at waist height rather than directly from the floor.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS403032A Analyse manual handling processes

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>