



Australian Government

PMBPROD209 Operate cable winding equipment

Release: 1

PMBPROD209 Operate cable winding equipment

Modification History

Release 1. Supersedes and is equivalent to PMBPROD209C Operate cable winding equipment

Application

This unit of competency covers the skills and knowledge required to operate cable winding equipment and ancillary equipment that is integral to the process. Cable winding equipment is typically used to store cable products or materials on reels ready for production, post-production or despatch.

This unit of competency applies to operators who are required to carry out pre-start checks, check settings and adjustments of preset equipment, monitor and adjust the equipment, and recognise routine and non-routine problems and take appropriate action.

This unit of competency applies to an individual working alone or as part of a team or group and working in liaison with other shift team members, team leader and supervisor, as appropriate.

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

Pre-requisite Unit

Nil

Competency Field

Production

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 | Check work requirements | 1.1 | Identify work requirements from production plan |
| | | 1.2 | Identify product, materials and equipment requirements for job |
| | | 1.3 | Identify hazards associated with the job and take appropriate action |
| | | 1.4 | Check with supervisor/appropriate person if requirements are not in accordance with usual practice |
| 2 | Conduct pre-start checks as required | 2.1 | Check safety gates, guards and emergency stops are in position and working |
| | | 2.2 | Check raw materials are correct |
| | | 2.3 | Undertake other pre-start checks to procedures |
| 3 | Check winding equipment setup | 3.1 | Observe spool condition and tag and return non-conforming spools to procedures |
| | | 3.2 | Check winding equipment settings and adjustments, spool size and length settings to procedures |
| | | 3.3 | Ensure product is checked for conformity with quality requirements |
| | | 3.4 | Tag and deal with non-conforming product to procedures |
| | | 3.5 | Thread product through the equipment and feed on to the spool |
| | | 3.6 | Use appropriate fixing devices, methods or materials |
| | | 3.7 | Adjust tensions and check laying pattern to procedures |
| | | 3.8 | Check emergency cut-off switches and other safety devices to procedures |

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| 4 | Operate equipment | 4.1 Start machine safely and correctly when required |
| | | 4.2 Check product/process is within required limits |
| | | 4.3 Check product is in specification |
| | | 4.4 Maintain supply of materials as required |
| | | 4.5 Complete logs and records when required |
| | | 4.6 Clean up equipment and work area to procedures |
| | | 4.7 Pause equipment, or stop equipment in an emergency, to procedures |
| | | |
| 5 | Monitor winding machine operation | 5.1 Monitor winding machine equipment operations noting cooling line temperatures, amperages, tensions, colour, thickness and product integrity compared to product specification |
| | | 5.2 Identify sections of product requiring repair and follow procedures to remedy the fault |
| | | 5.3 Make adjustments to remedy faults and non-conformity to specifications where applicable |
| | | 5.4 Collect material for reprocessing and reuse where possible, and deal with waste and scrap to procedures |
| | | 5.5 Complete equipment cleanup, lubrications, adjustments and waste management to procedures |
| | | |
| 6 | Complete work process | 6.1 Cut product and secure free ends |
| | | 6.2 Remove and set down reel using appropriate manual handling techniques |
| | | 6.3 Relocate reel and transport without damage to materials, personnel or equipment |
| | | 6.4 Fit new spool and recommence product winding operations |

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| 7 | Respond to routine problems to procedures | 7.1 | Recognise known faults that occur during the operation |
| | | 7.2 | Identify and take action on causes of routine faults |
| | | 7.3 | Log problems as required |
| | | 7.4 | Identify non-routine process and quality problems and take appropriate action |

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.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace, equipment and production processes and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through State or Federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or any combination of:

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

Tools and equipment Tools and equipment include:

- cable winding equipment
- ancillary equipment that is integral to the winding process.

Additional tools and equipment will be selected as required from:

- reels and spools used in storing cable
- hand tools used in the process
- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- computers
- traverse controls
- safety equipment
- mechanical and computerised measuring devices
- relevant personal protective equipment
- other relevant winding/cables/products.

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- trip hazards
- rotational equipment or vibration
- heat, smoke, dust, vapours or other atmospheric hazards
- high temperatures
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- incorrect reel/spool size and winding speed
- quality problems
- equipment failure
- job specifications which are not in accordance with usual practice.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Unit Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>