

Unit ID: 1505

Domain

PYROMETALLURGICAL PROCESSING

Title:

Bulk package and store product

Level: 3

Credits: 8

Purpose

This unit standard is intended for those who carry out metallurgical processing operations. People holding credit for this unit standard are able to: Plan and prepare for packaging; demonstrate knowledge relating to the bulk packaging and storing of product; conduct pre-operational checks; package product; store product; carry out routine operator maintenance; and complete duties pertaining to the bulk packaging and storing of product.

Special Notes

1. Entry information:

Prerequisite

- 1449 - *Comply with health, safety and environmental rules and regulations pertaining to processing operations; or demonstrated equivalent knowledge and skills.*

2. Assessment evidence may be collected from a real workplace or a simulated workplace in which pyrometallurgy operations are carried out.

3. Safe working practices include day-to-day observation of safety policies and procedures and compliance with emergency procedures.

4. Specifications refer to any, or all of the following: manufacturer's specifications and recommendations, and workplace specific requirements.

5. This unit standard refers to liquid and solid products.

6. Performance of all elements in this unit standard must comply with relevant regulatory, legislative, workplace requirements and/or manufacturers' specifications.

7. Regulations and legislation, including subsequent amendments, relevant to this unit standard may include but are not limited to the following:

- Labour Act, No. 11, 2007
- Mineral Act, No. 33, 1992
- Mine Health and Safety Regulations, 1999
- Regulations relating to the Health and Safety of employees at work, 1997 and all industry specific regulations, legislations, code of practice, or code of conduct.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website www.nta.com.na.

Elements and Performance Criteria

Element 1: Plan and prepare for packaging

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, explained, clarified and applied to the allocated task.
- 1.2 Safety and security requirements, including personal protective clothing and equipment are obtained from the site safety plan, workplace policies and procedures, explained, and applied to the allocated task.
- 1.3 Equipment, tools, accessories selected to carry out tasks are checked for consistency with the requirements of the job, their usability and any faults rectified or reported prior to commencement of work.
- 1.4 Site is prepared for positioning of any mobile equipment used for packaging operations. Mobile equipment is positioned and stabilised according to workplace procedures.
- 1.5 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.

Element 2: Demonstrate knowledge relating to the bulk packaging and storing of product

Performance Criteria

- 2.1 The actions and conditions pertaining to a safe, healthy work environment when packaging and storing are described.
- 2.2 The importance of packaging and storing is explained in terms of achieving specified production requirements.

- 2.3 Hazards and associated risks pertaining to the packaging and storing are identified through relevant risk assessment procedures.
- 2.4 Corrective actions, in case of sub-standards conditions and problems encountered, are described.
- 2.5 The communication requirements pertaining to the packaging and storing process and the consequences of non-compliance are explained in terms of legal and operational requirements.

Element 3: Conduct pre-operational checks

Performance Criteria

- 3.1 Workplace hazards and associated risks are identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 3.2 The equipment and plant is examined and substandard conditions are reported to appropriate personnel according to workplace procedures.
- 3.3 Start-up and shutdown procedures are conducted according to manufacturer's specifications.

Element 4: Package product

Range

Label package may include but is not limited to numbering and safety warnings.

Performance Criteria

- 4.1 Workplace hazards and associated risks are identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 4.2 Data from equipment indicators is read and interpreted to determine packaging efficiency.
- 4.3 Equipment is adjusted to optimise performance according to workplace procedures.
- 4.4 Feed to packaging unit is controlled.
- 4.5 Samples of product are taken according to workplace procedures.
- 4.6 Package is sealed and accurately labeled to ensure product is secured during transit.

- 4.7 The packaging process is continuously monitored and, if necessary, corrective actions taken according to workplace procedures.

Element 5: Store product

Performance Criteria

- 5.1 Workplace hazards and associated risks are identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 5.2 Product are stored in an location and secure environment according to workplace procedures.
- 5.3 Packaged product is positioned and braced according to transport requirements and workplace procedures.

Element 6: Carry out routine operator maintenance

Performance Criteria

- 6.1 Workplace hazards and associated risks are described, identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 6.2 The work area is prepared in readiness for maintenance work to be carried out
- 6.3 Maintenance, replacement or other maintenance is carried out within scope of responsibility according to manufacturer's specifications and workplace procedures.
- 6.4 System is restored to operational status and relevant documentation completed.

Element 7: Complete duties pertaining to the bulk packaging and storing of product

Range

Housekeeping may include but is not limited to ensure the work area is ready for next user; remove work materials to designated locations; correctly identify waste and re-usable material; and remove waste and re-usable materials to designated locations.

Performance Criteria

- 7.1 The packaging and storing process is stopped according to workplace procedures.
- 7.2 Task-specific tools, personal protective and safety equipment, are cleaned, maintained and stored for further use according to workplace procedures.
- 7.3 Good housekeeping practices are maintained according to workplace procedures.

- 7.4 Reporting and recording requirements are met according to workplace procedures.
- 7.5 Work related documents are completed according to job requirements and workplace procedures.

Registration Data

Subfield:	Metallurgy
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