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| Domain | PLUMBING | Unit ID: 436 |
| Title: | Handle and store plumbing materials | |
| Level: 1 | | Credits: 2 |

Purpose

This unit standard specifies the competencies required to handle and store plumbing materials. It includes identifying hazards and risk control measures associated with the handling and sorting of plumbing materials, the correct procedures for handling, sorting and stacking materials, and the correct procedures for storing and transporting materials.

This unit standard is intended for those who work as plumbers.

Special Notes

1. Entry information:
 - Prerequisite
 - 434 - *Apply safety rules and regulations in plumbing operations or demonstrated equivalent knowledge and skills.*
2. Assessment evidence may be collected from a real workplace or simulated real workplace or an appropriate simulated realistic environment in which plumbing operations are carried out.
3. Specifications may include detail relating to materials and quality of work, quality assurance and material types.
4. Materials may include but are not limited to pipes, fittings, appliances, fluxes, drain cleaning materials, sealants, valves, lubricants, oxy-acetylene gas bottles, LP (Low Pressure) gas and sheet metal.
5. Performance of all elements in this unit standard must comply with relevant workplace requirements and/or manufacturers' specifications.
6. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act No.6, 1992
 - Occupational Health and Safety Regulations No.18, 1997
 and all subsequent amendments.

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 on www.nta.com.na.

Elements and Performance Criteria

Element 1: Plan and prepare for work

Range

Planning and preparation include but are not limited to worksite inspection, tools defect identification, assessment of conditions and hazards and determination of work requirements.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied in line with workplace procedures.
- 1.2 Safety requirements are followed in line with workplace procedures.
- 1.3 Sign and barricade requirements are identified and implemented in line with workplace procedures.
- 1.4 Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.
- 1.5 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use in line with workplace procedures.
- 1.6 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Identify hazard and risk control measures associated with materials handling

Performance Criteria

- 2.1 Hazards associated with materials handling are recognised and reported to designated personnel in line with workplace procedures.
- 2.2 Procedures and instructions for controlling hazards and risks associated with materials handling are identified and adhered to.

Element 3: Handle, sort and stack materials

Performance Criteria

- 3.1 Materials are identified and selected for sorting and stacking/stockpiling in line with supervisor's instructions or workplace procedures.
- 3.2 Handling characteristics of materials are identified and safe manual handling techniques are applied in line with workplace and safety procedures.
- 3.3 Specific handling requirements and protection for non-hazardous materials and chemicals are applied in line with workplace and safety procedures.
- 3.4 Materials are stored, stacked/stockpiled and protected clear of traffic ways, for ease of identification, retrieval, prevention of damage and cross contamination in accordance with workplace requirements.
- 3.5 Signage and barricades are erected to isolate stored materials from workplace traffic or access.
- 3.6 Hazardous material is identified for separate handling by authorised persons.
- 3.7 Dust suppression procedures are used to minimise health risk to personnel in the workplace vicinity.

Element 4: Store and transport materials

Performance Criteria

- 4.1 Materials are stored and transported correctly and safely according to workplace procedures.
- 4.2 Hazardous material is identified for separate storage, transport and handling by authorised persons in line with workplace and safety procedures.
- 4.3 Materials, including flammable liquids and materials, gases, bulk liquids and petroleum products, are stored in their allocated areas/identified bins/containers in accordance with workplace requirements.
- 4.4 Hazardous materials are transported and handled in accordance with regulatory requirements, including appropriate signage, markings and safety precautions.

Element 5: Clean up work area

Performance Criteria

- 5.1 Work is completed and appropriate personnel notified in line with workplace procedures.
- 5.2 Work area is cleared of waste, cleaned, restored and secured in line with workplace procedures.

- 5.3 Plant, tools and equipment are cleaned, checked and maintained in line with workplace procedures.
- 5.4 Work completion details are finalised in line with workplace procedures.

Registration Data

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| Date this version registered: | 15 November 2007 |
| Anticipated review: | 2010 |
| Body responsible for review: | Namibia Training Authority |