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| Domain | PLUMBING | Unit ID: 445 |
| Title: | Carry out basic maintenance of domestic plumbing installations | |
| Level: 1 | | Credits: 6 |

Purpose

This unit standard specifies the competencies required to carry out the basic maintenance of domestic plumbing installations. It includes performing routine maintenance of taps, valves and cocks, and locating and manually clearing blockages in pipe-work using manual tools and equipment.

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 but not limited to detail relating to materials and quality of work, quality assurance, details relating to performance including standards of work, tolerances, material types, characteristics, treatments and finishes.
4. Materials may include but are not limited to pipes, fittings, appliances, drain cleaning materials, sealants, valves, and lubricants.
5. Performance of all elements in this unit standard must comply with all 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

Performance Criteria

- 1.1 Plans and specifications are obtained from job supervisor in line with workplace procedures.
- 1.2 Occupational health and safety requirements associated with routine maintenance on domestic installations are adhered to throughout the work in line with workplace procedures.
- 1.3 Quality assurance requirements are identified and adhered to in line with workplace requirements.
- 1.4 Tasks are planned and sequenced in conjunction with others involved in or affected by the work in line with workplace procedures.
- 1.5 Tools and equipment, including personal protective clothing and equipment, are selected and checked for serviceability in line with workplace procedures.
- 1.6 Work area is prepared to support the efficient repair and/or maintenance operations in line with workplace procedures.

Element 2: Perform routine maintenance on taps, valves and cocks

Range

Tools and equipment include but are not limited to spanners, pliers, screwdrivers, pipe wrenches.

Performance Criteria

- 2.1 Maintenance tasks are carried out in line with manufacturers' maintenance schedule.
- 2.2 Taps, valves, cocks and systems components are checked with appropriate instruments.
- 2.3 Faulty items or components are identified and appropriate maintenance procedures are selected in line with manufacturers' specifications.

- 2.4 Device is safely isolated in line with to workplace requirements, regulations and occupational health and safety requirements.
- 2.5 Faulty items or components are removed using appropriate tools, equipment and procedures.
- 2.6 Replacement components for replaceable items are selected from manufacturers' catalogue.
- 2.7 Serviceable items are fitted in line with manufacturers' specifications and workplace procedures.
- 2.8 Adjustments are made to equipment or components to comply with job specifications.
- 2.9 Maintenance report is documented in line with workplace procedures.

Element 3: Locate and manually clear blockages in pipe-work

Range

Manual blockage clearing equipment includes but is not limited to plungers and rods.

Performance Criteria

- 3.1 Section containing blockages is located and isolated in line with workplace procedures.
- 3.2 Manual blockage clearing equipment is selected in line with job requirements.
- 3.3 Blockage is cleared without causing damage to pipe work and fittings in line with workplace requirements.
- 3.4 Pipe work is tested to confirm blockage is cleared from pipe system in line with workplace requirements.
- 3.5 Pipe work is repaired or resealed to permit normal use in line with workplace requirements.

Element 4: Clean up work area

Performance Criteria

- 4.1 Work area is cleared and materials disposed of or recycled in line with legislation and workplace procedures.
- 4.2 Tools and equipment are cleaned, checked, maintained and stored in line with manufacturers' recommendations and workplace procedures.
- 4.3 Documentation is completed in line with workplace requirements.

Registration Data

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