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| Title | **Use and maintain plumbing tools and equipment** | | |
| Level | **2** | **Credits** | **8** |

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| Purpose | This competency standard is intended for those who carry out plumbing operations. People holding credit for this competency standard are able to: Use plumbing tools and equipment; perform bench work; and maintain plumbing tools and equipment. |

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| Classification ISCED | 0732 Building and civil engineering |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **H1:**  **Use plumbing tools and equipment** | **P1-** Identify and select tools, equipment and instruments  **P2-** Demonstrate safe use of tools, equipment and instruments | **K1-** Purpose and application of plumbing tools, equipment  **K2-** Use of plumbing tools, equipment and instruments |
| **H2:**  **Perform bench work** | **P1-** Secure work piece firmly  **P2-** Use metal processing tools to perform chip removal forming processes  **P3-** Use metal processing tools to perform chip-less forming processes | **K1-** Hazard and risk identification; Safety requirements  **K2-** Material properties  **K3-** Material properties |
| **H3:**  **Perform basic arc welding** | **P1-** Prepare materials  **P2-** Perform arc welding | **K1-** Setting up jigs, fixtures or clamps  **K2-** Welding equipment; Welding rods, settings, and consumables for Arc welding safety gloves |
| **H4:**  **Maintain plumbing tools and equipment** | **P1-** Describe preventive maintenance procedures  **P2-** Maintain and/or replace tool insulation  **P3-** Clean and store plumbing tools, equipment and instruments | **K1-** Preventive maintenance; Types of maintenance schedules or programmes for:  - Tools; Equipment; Machinery; Facilities  **K2-** Types of insulation and reports  **K3-** Storage requirements  - Tool box  - Key lock system  - Counting and tagging tools |