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| Title | **Perform maintenance operation** | | |
| Level | **2** | **Credits** | **5** |

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| Purpose | This Competency Standard identifies the competencies required to perform maintenance operations at workplace by welder in accordance with the organization’s approved guidelines and procedures. You will be expected to inspect welding equipment, replace damaged tools, clean welding equipment and accessories at the workplace. Your underpinning knowledge regarding maintenance operations will be sufficient to provide you the basis for your work. |

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| Classification ISCED | 0715 Mechanics and metal trades |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

| **Unit of Competency** | **Performance Criteria** | **Knowledge** | **Tools & Equipment** |
| --- | --- | --- | --- |
| B1. Inspect the welding equipment | **Trainee will be able to:**  P1. Carry out following visual inspection of welding equipment before starting the work   * Check electrical/gas connections * Check the working of torch coolant system * Check the working of handy tools (grinding, cutting and cleaning tools)   P2. Follow the organizational instructions during regular inspection of welding equipment  P3. Apply specific safety precautions associated with welding equipment usage | **Trainee will be able to:**  K1. Describe the importance of regular and periodic inspection of welding equipment  K2. Read and implement organizational instructions regarding regular equipment inspection  K3. Describe specific safety precautions associated with welding equipment usage | Instruction sheets, safety manuals, Personal Protective Equipment (PPE) |
| B2. Replace damaged tools | **Trainee will be able to:**  P1. Arrange tools and equipment required for the job  P2. Identify the damaged tools by checking their working  P3. Replace the damaged tools, if required  P4. . Apply specific safety precautions associated with equipment usage | **Trainee will be able to:**  K1. Describe the use of tools and equipment required for the job  K2. Identify the hazards related to the usage of damaged tools  K3. Describe the procedure of tools repair and replacement  K4. Describe specific safety precautions associated with equipment usage | Star set, screw driver set, adjustable wrench, pliers, socket set, Allen key set, ring spanner, multi-meter, PPE |
| B3. Clean welding equipment and accessories | **Trainee will be able to:**  P1. Arrange cleaning tools and material required for the welding equipment  P2. Apply cleaning procedure to clean the welding equipment and accessories  P3. Apply specific safety precautions associated with welding equipment | **Trainee will be able to:**  K1. Describe the usage of tools required for the welding equipment  K2. Explain the hazards associated with the usage of dirty equipment  K3. Describe specific safety precautions associated with welding equipment usage | Blower, dusters, liquid cleaner, luster, tip cleaner, anti spatter spray, PPE |