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| Title | **Perform basic metal processing operations using hand-held power tools** |
| Level | **2** | **Credits** | **12** |

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| Purpose | This competency standard is intended for those who perform basic metal processing operations using hand-held power tools in a variety of contexts. People holding credit for this competency standard are able to: Plan and prepare for work; perform grinding operations; perform drilling operations; and complete work. |

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| Classification ISCED | 0713 Electricity and energy |

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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** |
| **E1:****Plan and prepare for work** | **Trainee will be able to:****P1-** Determine job requirements from specifications**P2-** Identify and select auxiliary tools, devices and/or equipmentto carry out work processes in a safe manner**P3-** Identify and minimise hazards and risks associated with job requirements | **K1-** Safety procedures, including PPE**K2-** Auxiliary tools, devices and equipment**K3:**Potential risks and hazards for self and others associated with metal processing  |
| **E2:****Perform grinding and cutting operations** | **Trainee will be able to:****P1-** Select grinding/cuttingtools &equipment according to job requirements**P2-** Apply safe grinding/cutting process**P3-** Check for conformance with job requirements | **K1-** Types and application of grinding/cuttingdisks, and accessories**K2**- Metal types and properties**K3**- Safe working procedures |
| **E3:****Perform drilling operations** | **Trainee will be able to:****P1-**Select drilling tools &equipment according to job requirements**P2-** Apply safe drilling process**P3-** Check for conformance with job requirements | **K1-** Types and application of drills, accessories, and lubricants**K2**- Drilling speed and feed**K3**- Safe working procedures |

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| **E4:****Complete work** | **Trainee will be able to:****P1-** Complete work related documents and procedures**P2-** Perform final quality inspection**P3-** Clean up and store tools, equipment and materials | **K1-** Importance of documentation**K2-** Importance of quality assurance **K3-** Waste disposal procedures; care of tools and equipment |