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| Title | **Analyze faults in MHP plant operation** | | |
| Level | **4** | **Credits** | **3** |

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| Purpose | This competency standard is intended for people in a senior position who analyse faults in MHP plant operations. People holding credit for this competency standard are able to: Plan and prepare for fault analysis; test plant and auxiliary equipment operation; analyse plant and auxiliary equipment faults; and record findings. |

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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** |
| **D1:**  **Plan and prepare for fault analysis** | Trainee will be able to:  **P1-** Identify and obtain safety and other regulatory requirements  **P2-** Obtain and interpret specifications and/or drawings regarding civil structure components  **P3-** Identify and select tools and equipment | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Drawing and symbol specifications  **K3-** Tools and equipment and calibration meter thereof |
| **D2:**  **Test plant and auxiliary equipment operation** | Trainee will be able to:  **P1-** Perform tests according to defined procedures  **P2-** Observe plant and equipment for correct operational response  **P3-** Take corrective action when response is not in accordance with documentation, plant integrity or personal safety requirements  **P4-** Return plant and equipment to required operation status on completion of test | **K1-** Test procedures  **K2-** Dealing unplanned events  **K3-** Operation of plant components  **K4-** Safe working procedures |
| **D3:**  **Analyse plant and auxiliary equipment faults** | Trainee will be able to:  **P1-** Analyse the technical and operational information in a logical and sequential manner to identify causes of abnormal operating conditions  **P2-** Determine necessary actions to rectify fault  **P3-** Maintain plant integrity and personnel safety through consultation with appropriate personnel, and reference to plant, technical and operational documentation  **P4-** Notify appropriate personnel for repair when defects are detected | **K1-** Analysing plant faults  **K2-** Monitoring plant operation  **K3-** Safe working procedures |
| **D4:**  **Record findings** | Trainee will be able to:  **P1-** Update and maintain documentation in terms of equipment problems, movements, abnormalities and status | **K1-** Work completion details |