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| Title | **Control MHP plant shutdown for emergency standby electrical systems** | | |
| Level | **4** | **Credits** | **3** |

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| Purpose | This competency standard is intended for people in a senior position who are responsible for controlling MHP plant shutdown for emergency standby electrical systems. People holding credit for this competency standard are able to: Prepare emergency standby electrical system; shut down and isolate emergency standby electrical system; service emergency standby electrical system; monitor emergency standby electrical system and stabilise transient condition. |

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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** |
| **C1:**  **Prepare emergency standby electrical system** | Trainee will be able to:  **P1-** Ensure pre-conditions for plant preparation are met  **P2-** Prepare plant for service  **P3-** Document preparation for plant shut-down procedures | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Impact of decision on plant operation  **K3-** Pre-condition procedures |
| **C2:**  **Shut down and isolate emergency standby electrical system** | Trainee will be able to:  **P1-** Carry out pre-condition for shutdown procedure  **P2-** Isolate emergency standby electrical system  **P3-** Document plant shutdown and isolation | **K1-** Shutdown procedure  **K2-** Isolation procedure  **K3-** Documentation process |
| **C3:**  **Service emergency standby electrical system** | Trainee will be able to:  **P1-** Apply hazard and risk identification  **P2-** Conduct servicing procedures  **P3-** Document servicing procedure | **K1-** Problem solving process  **K2-** Energy conversion process  **K3-** Mechanical plant component application and interrelation  **K4-** Electrical plant component application and interrelation  **K5-** Function of instrumentation components  **K6-** Documentation process |

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| **C4:**  **Monitor emergency standby electrical system and stabilise transient condition** | Trainee will be able to:  **P1-** Monitor plant operating condition  **P2-** Identify and react upon out of normal conditions  **P3-** Compare actual output values against expected requirements  **P4-** Document transient conditions, actions and results | **K1-** Priority setting  **K2-** Documentation process |