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| Title: | WT4.03 Evaluate Water Treatment for Steam Generation Systems | |
| Level: | 4 | |
| Credit Value: | 15 | |
| Learning outcomes | Assessment criteria | |
| 1. Follow organisational procedures relating to evaluating water treatment for steam generation systems | 1.1. Work safely at all times 1.2. Comply with the health, safety and environmental requirements set out by the organisation relevant to the site 1.3. Follow the organisational procedures that are appropriate to the operation being undertaken | |
| 2. Prepare to evaluate water treatment for steam generation systems | 2.1. Produce a water treatment programme to meet system requirements and regulatory requirements utilising design models 2.2. Produce a programme of control measures to maintain the efficacy of the treatment programme in accordance with company operating procedures | |
| 3. Carry out the evaluation of water treatment for steam generation systems | 3.1. Identify and assess system conditions relevant to the water treatment programme 3.2. Assess the performance of the treatment programme for steam generation systems in accordance with company operating procedures 3.3. Investigate faults and errors in the system in accordance with company operating procedures 3.4. Identify and progress a programme of corrective actions for steam generation systems in accordance with company operating procedures | |
| 4. Complete the evaluation of water | 4.1. Record information and write | |

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| <p>treatment for steam generation systems</p> | <p>report using company documentation in accordance with company operating procedures</p> <p>4.2. Provide the documentation to the relevant people</p> |
| <p>5. Know how to follow organisational procedures</p> | <p>5.1. Explain personal and legal responsibilities with regard to health and safety in the working area</p> <p>5.2. Describe how working practices ensure that the working environment is conducive to good health</p> <p>5.3. Describe what the approved codes of practice/working practices relevant to the operation are and why it is important to follow them</p> <p>5.4. Explain when a work task risk assessment should be completed and how to ensure that one has been completed</p> <p>5.5. Explain how they would know if specific site requirements are in place and what they would do to comply with them</p> <p>5.6. Explain the company procedures relevant to evaluating water treatment for steam generation systems</p> |
| <p>6. Know how to prepare for evaluating water treatment for steam generation systems</p> | <p>6.1. Describe the different types of steam generation systems</p> <p>6.2. Describe the principles of operation of the different types of steam generation systems</p> <p>6.3. Explain the impact of water quality on steam production capacity</p> <p>6.4. Describe steam separation, superheat and deaeration system operation</p> <p>6.5. Explain the principles of water treatment regarding the different types of steam generation</p> |

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| | <p>systems</p> <ul style="list-style-type: none"> 6.6. Explain the problems encountered in the relevant systems 6.7. Describe the water chemistry and microbiology applicable to steam generation systems 6.8. Explain the Health and Safety implications of incorrect water treatment 6.9. Describe the Health and Safety implications of incorrect system operation 6.10. Explain the importance of any relevant system standards and regulatory requirements 6.11. Describe which treatment methods are available and can be used 6.12. Explain what control measures can be used for the water treatment programme 6.13. Explain what system conditions are relevant to the water treatment programme 6.14. Describe how to apply the company's treatment processes 6.15. Explain how to interpret schematic diagrams and survey outputs 6.16. Explain the efficacy of the relevant treatment programme and how it relates to regulatory compliance |
| <p>7. Know how to evaluate water treatment for steam generation systems</p> | <ul style="list-style-type: none"> 7.1. Describe how to evaluate the efficacy of the treatment programme and how it relates to regulatory compliance 7.2. Describe how to follow a performance monitoring programme 7.3. Describe which methods for performance monitoring are available |

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| | <p>7.4. Explain what to do if performance is unsatisfactory</p> <p>7.5. Describe the range of potential corrective actions that may be employed</p> <p>7.6. Describe what corrective actions can be taken in accordance with company operating procedure</p> <p>7.7. Explain what to do if the appropriate corrective action cannot be taken and who to report this to</p> <p>7.8. Explain which corrective action it is appropriate to follow</p> <p>7.9. Explain how to progress corrective actions outside of the limits of own responsibility</p> |
| 8. Know how to complete the evaluation of water treatment for steam generation systems | <p>8.1. Describe what documentation to use in accordance with organisational procedures</p> <p>8.2. Describe how to complete the documentation</p> <p>8.3. Explain who the relevant people are to receive the completed documentation</p> |
| Additional information about the unit | |
| Unit purpose and aim(s) | This unit addresses the skills and knowledge required to prepare for and evaluate water treatment for steam generation systems. |
| Unit expiry date | 31/07/2016 |
| Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate) | This unit covers the skills and knowledge requirements of NOS "Evaluate Water Treatment for Steam Generation Systems". |
| Assessment requirements specified by a sector or regulatory body (if appropriate) | This unit is subject to the requirements set out in the Cogent SSC Assessment Strategy. |
| Endorsement of the unit by a sector or other appropriate body (if required) | Cogent SSC |

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| Location of the unit within the subject/sector classification system | 2.1 , 4.2 |
| Name of the organisation submitting the unit | PAA\VQ-SET |
| Availability for use | Restricted unit |
| Unit available from | |
| Unit guided learning hours | 24 |