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| Overview | This standard covers the competence required to contribute to the maintenance and repair of electrical machinery and systems on board ship according to instructions. Inspection and tests when scheduled are completed satisfactorily and operational downtime is minimised. Work required to restore performance of components and machinery is reported promptly.  **Target Group**  This standard applies to individuals at the support level on tugs with responsibility for carrying out routine maintenance of electrical equipment and at the operational level with responsibility for carrying out routine maintenance of electrical equipment on vessels of any type and of any registered power. |

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| **Performance criteria**  You must be able to: | 1. prepare a work sequence to maintain electrical machinery in accordance with orders 2. confirm that work areas, machinery and equipment are safe for work to proceed and comply with legislative requirements, codes of practice, isolation procedures, permit to work procedures and environmental concerns 3. carry out the planned maintenance, checks and tests in accordance with established safety rules and regulations, manufacturer’s instructions and good practice 4. identify and report where equipment and parts fail to meet required performance after maintenance 5. on completion of work, complete the Permit to Work and/or transfer procedures to organisational requirements 6. complete documentation and records accurately and to meet future requirements |

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| Knowledge and understanding  You need to know and understand: | 1. the possible hazards associated with the work area and equipment and machinery in the work area 2. the need and procedures to isolate and de-isolate systems 3. the organisational requirements for permits to work 4. the use of tools and equipment for maintenance and repair of electrical equipment 5. basic electrical engineering practices 6. the maintenance required for vessel electrical equipment 7. routine test procedures and technical requirements of tests 8. the use of internal communication systems and effective forms of communication. 9. statutory regulations and guidelines, organisational instructions and guidance, and vessel contingency plans |

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