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| Overview | This standard covers the competence to operate and maintain the internal communication and hardware systems on board, in accordance with appropriate procedures, safety rules and regulations. It covers computers and computer networks.  **Target group**  This standard applies to individuals working on board commercial vessels with responsibility for electro-technical operations at the operational level. |

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| **Performance criteria**  You must be able to: | 1. operate internal communication and hardware systems in accordance with established safety rules, regulations and operating instructions to prevent damage 2. plan maintenance activities in accordance with technical, legislative, safety and procedural specifications 3. isolate, dismantle and reassemble internal communication and hardware systems in accordance with manufacturers’ guidelines and shipboard instructions within the limits of your personal authority, carrying out maintenance activities in the specified sequence and in an agreed timescale 4. identify, take appropriate action on and report malfunctions/defects 5. inform relevant personnel of the operations, to enable them to continue their responsibilities safely 6. complete relevant records accurately and pass them on to the appropriate person 7. dispose of waste materials in accordance with safe working practices and approved procedures |

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| Knowledge and understanding  You need to know and understand: | 1. the working principles and constructional details of internal communication and hardware systems 2. planning of operations, planning methods, sources of information – statutory, company and manufacturers 3. the main duties and responsibilities of shipboard personnel and the level of supervision required by individuals 4. the checks and procedures required to operate each individual internal communication and hardware system 5. the location, cause and effects of common faults in internal communication and hardware systems and action necessary to prevent damage 6. the use of internal communication systems, communicating with engine room and bridge personnel and effective forms of communication. 7. the importance and use of records for commercial and legislative purposes 8. how to dispose of waste effectively and the procedures, guidelines and legislation requirements 9. the application of Statutory Regulations and guidelines, organisational instructions and guidance, and vessel contingency plans |

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| |  |  | | --- | --- | | **Developed by** | Maritime Skills Alliance | | **Version number** | 2 | | Date approved | January 2012 | | Indicative review date | December 2016 | | Validity | Current | | Status | Original | | Originating organisation | Skills for Justice | | Original URN | MSA C16 | | Relevant occupations | Electro technical officer | | Suite | Maritime | | Key words | Vessel; ship; internal; electric; electronic; communication; network; system; operate; operation; maintain | |  |
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