|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course title** | Shipboard Maintenance and Repair Procedures - Electrotech | | | | |
| **STCW Code alignment ref.** | **Table A-III/7** Specification of minimum standard of competence for electro-technical rating | |  | | |
| **Function** | Marine Engineering at the support level | | | | |
| **Course code** |  | **Directed learning hours** | | **Lecture** |  |
| **Course version** | V1 | **Tutorial** |  |
| **Level** | 4 | **Blended** | 45 |
| **Credits** | 7 |  |  |
| **Delivery mode** | Blended |  |  |
| **Internet Based Learning Indicator** | 3 | **Work integrated learning hours** | | |  |
| **EFTS value** | .0583 | **Independent learning hours** | | | 25 |
| **Pre-requisites** |  | **Notional learning hours** | | | **70** |
| **Co-requisites** |  | | | | |
| **Attendance requirements** | 80% attendance is recommended for course work; | | | | |

**Aim**

Demonstrate knowledge and skills of basic routine shipboard maintenance and repair procedures on board

**Learning outcomes**

On successful completion of this course the student will be able to:

Outcome 1 **Demonstrate ability to use lubrication and cleaning materials and equipment**

* selects correct lubricating products for applications
* cleaning products are selected and used appropriately

Outcome 2 **Demonstrate knowledge of safe disposal of waste materials**

* interprets, International Convention for the Prevention of Pollution from Ships, technical annexes I to IV of MARPOL

Outcome 3 **Demonstrate basic understanding of executing routine maintenance and repair procedures**

* selection and use of appropriate equipment and tools

Outcome 4 **Demonstrate basic understanding of manufacturer’s safety guidelines and shipboard instructions**

* maintenance activities are carried out in accordance with technical, safety and procedural specifications

Outcome 5 **Demonstrate knowledge of handling of stores**

* Describe procedures for safe handling, stowage and securing of stores

**Assessment**

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Type | Weighting | Learning Outcomes assessed |
| 1 | Practical assessment | C | 1, 3, 4, 5 |
| 2 | Assignment | C | 1-5 |
| 3 | Written test | C | 2, 5 |

**Resources required**

Text books

Hall, Dennis T, 1996 Second Edition, Practical Marine Electrical Knowledge

ISBN 1 85609 1821

Hall, Dennis T, 2014 Third Edition, Practical Marine Electrical Knowledge

ISBN 978 1 85609 623 2

Schaum Theory and Problems of Basic Electricity

ISBN 0 03 025240 8

Videotel training video series

[Practical Marine Electrical Knowledge (1) - Ships Electrical Systems - Safety and Maintenance](mms://W2K8MEDIA.maritime.manukau.ac.nz/Ships%20Electrical%20Systems%20-%20Safety%20and%20Maintenance)

[Practical Marine Electrical Knowledge (2) - Electrical Distribution](mms://W2K8MEDIA.maritime.manukau.ac.nz/Electrical%20Distribution)

Laboratory

Electrical and Electronics laboratory – test instruments