Course title Electrical and Electronic Measuring Equipment, Basic Electrical Fault Finding

STCW Code Table A-III/7

alignment ref. Specification of minimum standard of

competence for electro-technical rating

Function Marine Engineering at the support level

Course code Lecture

Course version V1 Tutorial

Directed

Level 4 learning Blended

hours

75

Credits 10 Practical

Delivery modeBlendedWorkshop

Internet Based 3 Work integrated learning

Learning Indicator hours

EFTS value .0833 **Independent learning hours** 25

Pre-requisites Notional learning hours 100

Co-requisites

Attendance 80% attendance is recommended for course work;

requirements

Aim

Demonstrate knowledge and skills of safety requirements for working on shipboard electrical systems

Learning outcomes

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

Outcome 1 Demonstrate basic knowledge of the implementation of satisfactory safety procedures

 Demonstrate basic understanding of construction and operational characteristics of shipboard AC and DC systems and equipment

Outcome 2 Demonstrate the use of appropriate test equipment and accurately interpret results

Demonstrate basic understanding of using measuring instruments

Outcome 3 Demonstrate basic knowledge of procedures for the conduct of repair and maintenance in accordance with manuals and good practice

Demonstrate basic understanding for use of machine tools, hand tools and power tools

Assessment

Number	Туре	Weighting	Learning Outcomes
			assessed
1	Practical assessment in the workshop	С	1- 2-3
2	Written test	С	1-3

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 Practical Marine Electrical Knowledge (2) - Electrical Distribution

Laboratory

Electrical and Electronics laboratory – test instruments