



Regulated Qualifications Unit and Assessment Specification

Unit title	Marine Vessel Electronic Navigational Equipment Maintenance
Regulator unit code	K/503/4159
SQA unit code	FT2L 60
SSC ref	Unit 71

History of changes

Publication date: September 2011

Version: 02 (December 2017)

Version number	Date	Description	Authorised by
02	December 2017	Unit Specification updated to reflect current Ofqual terminology.	Qualifications Officer

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Regulated qualifications unit specification

Title	Marine Vessel Electronic Navigational Equipment Maintenance	
Level	2	
Credit value	11	
Outcomes	Assessment criteria	
The learner will:	The learner can:	
1 Be able to undertake operational checks on marine navigational equipment to determine correct operations.	1.1	Carry out the operational checks and tests on the following range of equipment: <ul style="list-style-type: none"> ◆ marine radar ◆ marine automatic radio plotting aid (ARPA) radar display ◆ gyrocompass ◆ autopilot and steering gear ◆ echo-sounder ◆ speed log ◆ global positioning system (GPS) receiver ◆ automatic indication system (AIS) unit ◆ loran C receiver
2 Be able to record operational parameters.	2.1	Measure and record a data set for use as future reference using: <ul style="list-style-type: none"> ◆ marine radar ◆ marine automatic radio plotting aid (ARPA) radar display ◆ gyrocompass ◆ autopilot and steering gear ◆ echo-sounder ◆ speed log
3 Know how to undertake fault finding at system level.	3.1	Describe how to locate a minimum of three faults within a variety of marine navigational equipment. <ul style="list-style-type: none"> ◆ marine radar ◆ marine ARPA radar display ◆ gyrocompass ◆ autopilot and steering gear ◆ echo-sounder ◆ speed log

Additional information about the unit
Unit purpose and aim(s)
To provide the learner with the practical skills and procedures required to undertake duties as an Electro-technical Officer on board a merchant vessel.
Unit start date
01/09/2011
Details of the relationship between the unit and relevant national occupational standards (if appropriate)
N/A
Details of the relationship between the unit and other standards or curricula (if appropriate)
MNTB NOS (number not yet allocated) International Maritime Organisation (IMO) Standards for Training and Certification for Watchkeeping (STCW) requirements for an Electro-technical Officer at Operational Level.
Assessment requirements specified by a sector or regulatory body (if appropriate)
By direct observation; oral questioning; record of system tests.
Endorsement of the unit by a sector or other appropriate body (if required)
Maritime and Coastguard Agency (MCA)
Location of the unit within the subject/sector classification system
4.3 Transportation Operations and Maintenance
Name of the organisation submitting the unit
SQA
Guided learning hours
102

Regulated qualifications assessment specification

Assessment (evidence) requirements

The following evidence is required to demonstrate that learners have the practical skills and procedures required to undertake duties as an Electro-technical Officer on board a merchant vessel. All outcomes and assessment criteria must be achieved.

Written and/or recorded oral evidence produced either on or off-the-job is required for the following:

- ◆ Outcome 3

Performance evidence in the workplace or in an appropriate simulated environment is required for the following:

- ◆ Outcomes 1 and 2

This could be achieved through the observation of learners undertaking practical exercises.

An approved Maritime Skills Alliance (MSA) approved Training Record Book (TRB) should be used to record evidence of achievement.

Guidance on assessment

Performance evidence can be generated using an approved Maritime Skills Alliance (MSA) approved Training Record Book (TRB) and/or practical exercises.

Short answer written questions and/or oral interview could be used for the other outcomes and assessment criteria.