

Qualification title:
Level 2 Diploma in Marine Engineering (Foundation)

Qualification number:
2473

Guidance relating to all centre devised units for this qualification

The following guidance applies to all of the centre devised units listed. Where individual units require specific guidance, this is provided in the next section; Unit specific guidance.

Generic guidance for units:

Task Setting:

Each task will consist of

- planning and preparation
- carry out an appropriate risk assessment
- execution of the activity complying with current Health & Safety requirements and legislation
- inspection of the finished work
- recording and reporting on the completed task.

Specific guidance for each unit is given below.

In order to ensure all the knowledge requirements are covered, additional underpinning knowledge questions will need to be completed by the candidate.

City & Guilds has produced a set of questions for each unit. These should be treated as a separate assessment task and the standard forms used (ie fronted by GF2/3 if written or GF1 or alternative if oral).

Forms of Evidence:

It is expected that the following forms of evidence will be produced for these units:

- Candidate report (fronted by GF2/3) and discussion with assessor (recorded on GF1).
- Inspection report form including marked up diagrams (centre devised form or GF1).
- Report, either on pre-prepared pro forma supplied by the assessor, or a written report and assessor checklist (fronted by GF2/3)
- Written report to include planning of the task, annotated illustrations of the process (e.g. drawings, photographs). (Any illustrations must clearly state what the candidate is doing/did) and completed job card and/or inspection report (fronted by GF2/3).
- Photographic evidence or actual work piece (fronted by GF2/3).

All candidate produced material should be fronted by GF2/3 and any evidence recorded by the assessor should be on GF1, or where appropriate a centre devised alternative, or media recording. Audio or video (media) recordings must be securely saved as evidence, clearly identified as relating to the candidate in question and accessible to the I&EV).

Conditions:**Practical tasks**

The assignment should take place in the workshops and classrooms of a centre with full facilities for boat-building and/or marine engineering activities, with all the appropriate equipment, relevant tools and consumables for working with boat-building and/or marine engineering materials.

Underpinning knowledge questions

The short answer underpinning knowledge questions must all be taken under supervised conditions as closed-book tests and must not be completed as homework.

This means that all the activities will be completed with the assessor, or other designated supervisor, present.

Strict exam regulations (e.g. JCQ ICE) do not apply; it is envisaged that most candidates will take the short answer questions in their normal learning environment with their own tutor present. Alternatively, assessors may ask the questions orally and record individual candidate's responses on the assignment evidence recording form. In the event of a candidate failing the knowledge task, the whole task does not need to be re-taken. The assessor will need to make a judgement on the specific areas of knowledge/understanding that the candidate is weak and devise suitable alternative questions or tasks. It is expected that some feedback or reflection, further teaching or practice will be required so immediate resit is not appropriate.

Please note that the mark scheme is given for guidance purposes, and is not prescriptive. Assessor's discretion as to the quality of answer is required, and alternative, recognised and acceptable answers can be considered if they fall within the scope of the question.

Marking and grading criteria to be applied

Please refer to the Generic Grading Criteria (GM2) for the detailed descriptors for pass, merit and distinction.

The following will apply for the below units:

Performance of techniques/methods/skills (PT)

Practical application of knowledge and understanding (AKU)

Knowledge (K)

Understanding (U)



Unit	Unit details		
209	Title: Servicing and maintenance of marine engines and ancillary systems	Graded: pass/merit/distinction	Sample assessment:
<p>Task Setting: The equipment/facilities to be available during the assignment should include the following:</p> <ul style="list-style-type: none"> • Appropriate tools and testing equipment. • Suitable working examples of a range of marine engines. • A range of appropriate manufacturers specifications and data. • A selection of appropriate consumable products (oils, oil/air filters, coolants). • A selection of appropriate replacement//maintenance components (e.g. pumps, strainers, alternators, fuses, batteries, switches). <p>Appropriate tasks will include:</p> <ul style="list-style-type: none"> • Interpret drawings, data and specifications. • Utilise information from the specifications to create a servicing/maintenance schedule. • Carry out an appropriate risk assessment. • Select and use a range of tools and testing equipment necessary for servicing and maintenance of marine engines. • Carry out servicing and maintenance tasks as appropriate. • Check tasks completed meet required specifications. • Identify and record results of task carried out. • Reinstate the work area. 			

Unit	Unit details		
210	Title: Servicing and maintenance of marine propulsion systems	Graded: pass/merit/distinction	Sample assessment:
<p>Task Setting: The equipment/facilities to be available during the assignment should include the following:</p> <ul style="list-style-type: none"> • Appropriate tools and testing equipment required for maintaining electrical marine engineering equipment and systems. • Suitable working examples of a range of electrical marine engineering equipment and systems. • A range of appropriate manufacturers specifications and data. • A selection of appropriate consumable products. <p>Appropriate tasks will include:</p> <ul style="list-style-type: none"> • Interpret drawings, data and specifications. • Utilise information from the specifications to create a servicing/maintenance schedule. • Carry out an appropriate risk assessment. • Select and use a range of tools and testing equipment necessary for servicing and maintenance of marine propulsion systems. • Carry out servicing and maintenance tasks as appropriate. • Check tasks completed meet required specifications. • Identify and record results of task carried out. • Reinstate the work area. 			