



**T Level Technical Qualification in  
Maintenance, Installation and  
Repair for Engineering and  
Manufacturing (8712-35)**

**Light and Electric Vehicles (315)**

**Practical Assignment  
Sample Candidate Pack**

**First teaching from September 2022  
Version 1.0**

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# 1. Assessment

This assessment is for the Light and Electric Vehicles Occupational Specialism component of the Technical Qualification. This pack consists of a practical assignment brief, including drawings and diagrams as necessary, that you will need to use to complete your assessment tasks.

## 2. Candidate Guidance

### General guidance

This is a formal assessment that you will be marked and graded on. You will be marked on the quality and accuracy of the work you produce. It is therefore important that you carry your work out to the highest standard you can.

### Plagiarism

Plagiarism is the failure to acknowledge sources properly and/or the submission of another person's work as if it were your own. Plagiarism is not allowed in this assignment.

This assignment is an assessment of your abilities, so the work submitted must be all your own and carried out under the conditions stated. You will be asked to sign a declaration that you have not had any help with the assignment. Your assessor is allowed to give you some help understanding the instructions if necessary, but they will record any other guidance you need, and this will be taken into account during marking.

Where research is allowed, your assessor must be able to identify which work you have done yourself, and what you have found from other sources. It is therefore important to make sure you acknowledge sources used and clearly reference any information taken from them (e.g. providing as a minimum a list of web addresses / books / articles etc used).

### Timings and planning

You are advised to study the details of the assessment before starting.

You should check with your assessor that you have all the relevant materials, equipment and information/data sources that you need before starting the assessment.

You should take care when planning to make sure you have divided the time available between parts of the assignment tasks appropriately. Timings for tasks are provided within this pack to support with planning and time allocation.

If you have a good reason for needing more time, you will need to explain the reasons to your assessor and agree a new deadline date. Changes to dates will be at the discretion of the assessor, and they may not mark work that is handed in after the agreed deadlines.

Any requested changes to deadlines must be agreed by both your assessor and City & Guilds.

### Word counts

Typical word counts, where indicated, are to be used as approximates for guidance to support the production of sufficient evidence. The marking will relate to the quality of the evidence produced and not whether the word count has been met.

### Health and Safety

You must always work safely, in particular while you are carrying out practical tasks.

You must always follow any relevant Health and Safety regulations, Risk Assessments and codes of practice in line with centre requirements.

If your assessor sees you working in a way that is unsafe for yourself or others, they will highlight the issue and ask you to stop the task immediately. Your assessor will not be able to reassess you until they are sure you are ready for assessment and can work safely.

### **Presentation of work**

Presentation of work must be neat, legible and appropriate to the task, and evidence required for submission.

You should make sure that each piece of evidence including any forms are clearly labelled with your name and the project reference.

All electronic files must be given a clear file name that allows your assessor to identify it as your work.

Written work may be word-processed or handwritten unless stated otherwise.

All sketches and drawings should be neat, tidy and annotated.

Calculations should be set out clearly, with all working shown, as well as any assumptions made. You should use appropriate units at all times, consistent with the requirements of the assignment.

### **Instructions for this assignment**

Ensure you read all the provided assessment information issued by the assessor

You must work independently and not share your work with any other candidates in these supervised assessment sessions.

Your work will be kept secure during any supervised breaks that are taken.

Internet access is **not** allowed, unless otherwise stated in the task.

You must complete all the tasks and present all evidence that is detailed in each task.

This assessment booklet contains the assignment brief.

The tasks have been separated into individual documents which will be handed to you at the start of each task.

### **Within each task you will find the following:**

- **Conditions of assessment:** This will tell you the duration and rules you must follow when completing a task.
- **Controlled conditions:** This will tell you the rules you must follow when completing each task e.g. You must not share or discuss your work with other candidates.
- **What must be produced for marking:** This describes the evidence you must submit when the task is completed. Be aware failure to submit any evidence requested can adversely affect your overall mark for the assessment.
- **Additional evidence for this task:** This describes other forms of evidence that will be collected by the assessor to support the marking of your performance. This will often include but not limited to photographic and video evidence.

## Assessment themes

You will be assessed against a number of assessment themes. This assignment has a total of 90 marks. The table below shows the weighting of the marks for each of the assessment themes.

Assessment theme	Approximate weighting %
Health and safety	13%
Planning and preparation	20%
Systems and components	27%
Working with faults	17%
Reviewing and reporting	23%

### 3. Assignment brief

You have recently qualified as a vehicle technician at a main dealer, and as part of your development your manager has asked you to carry out work to two vehicles to assess your knowledge and skills before placing you on the manufacturer's development programmes.

The first vehicle has come in for a full vehicle service.

The specification for vehicle 1 is:

- four stroke petrol/common-rail diesel engine.

The full service for this vehicle must include as a minimum:

- external body work inspection
- windscreen and wiper blades
- lights
- seatbelts
- tyres, brakes and suspension
- filters
- fluids
- batteries.

The following has also been reported:

- customer complaining of a juddering when applying the brakes
- the engine management light (EML) is illuminated
- the exhaust needs to be extended to meet manufacturers guidelines by welding an extension onto the existing exhaust.

The second vehicle has come in for general maintenance and repair.

The specification for vehicle 2 is:

- hybrid/electric vehicle.

The following has been reported:

- the high voltage battery light and malfunction induction lamp (MIL) are both illuminated
- unusual vibration noticed when travelling between at speeds 50mph and 60mph.

To complete the tasks, you must:

- plan the service, maintenance and repair activities for both vehicles
- perform the service and maintenance activities, including diagnosing any faults and completing subsequent repairs
- review and report the findings of the service and maintenance completed.

This assignment has a time allocation of 22 hours.

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