SEG Awards Level 2

Motor Vehicle Studies

**Underpinning Knowledge Evidence Record**

K/601/6030 Knowledge of Removing and Fitting Electrical Components

|  |  |
| --- | --- |
| **Learners Name** |  |
| **SEG Awards Registration Number** |  |
| **Centre Name** |  |
| **Assessor 1 Name**  |  |
| **Assessor 2 Name**  |  |

**DECLARATION OF AUTHENTICITY**

This declaration must be completed and signed by the learner and countersigned by the tutor / assessor and covers all evidence submitted for moderation.

|  |  |
| --- | --- |
| Learner Name |  |
| Unique Learner Number (ULN) |  | SEGLearner Reg. ID |  |
| Qualification Title |  |
| Centre Name |  |

# Learner statement of authenticity

**Before signing please read the guidance below**.

I confirm, that the attached assignment / portfolio is all my own work[[1]](#footnote-1) and does not include any work completed by anyone other than myself. I have completed the assignment / portfolio in accordance with SEG Awards’ instructions and within the time limits set by my centre.

|  |  |  |  |
| --- | --- | --- | --- |
| Signature |  | Date |  |

# Centre confirmation of authenticity

On behalf of …………………………………….(insert centre name), I confirm that the above mentioned learner, to the best of my knowledge, is the sole author of the completed assignment / portfolio attached, and the assessments have been completed under the required conditions.

|  |  |  |  |
| --- | --- | --- | --- |
| Signed |  | Date |  |
| Name |  |
| Title |  |

**Guidance for Learners**

You have been asked to sign this Declaration of Authenticity and place it at the front of your portfolio or course work assessment. It confirms that the work you have submitted for assessment is your own and that you have not copied it from someone else or allowed another learner to copy it from you.

When preparing any course work it is good practice to undertake research using information from published sources. If you quote directly from these sources then this must be indicated in your work by using quotation marks and referencing the document from which the quotation was taken. You must then comment in your own words on any ideas expressed.

Assessors, internal verifiers and SEG Awards’ external moderators and verifiers are subject specialists who can spot the use of published materials that may be passed as your own words or ideas.

If you do copy words from a published source and do not indicate their reference you will be committing plagiarism. This is considered a form of cheating and may result in your assessment being declared void.

**Contents**

|  |  |  |
| --- | --- | --- |
| **Task No** | **Title** | **Assessment Criteria** |
| 1 | Removing and fitting electrical components | 1.1, 1.2, 1.3, 1.4, 1.8 |
| 2 | Head lamps | 1.5, 1.6, 1.7 |
| 3 | Component construction and operation | 2.1, 2.2 |

|  |  |
| --- | --- |
| **Task 1 – Removing and fitting electrical components** | **Assessment Criteria 1.1, 1.2, 1.3, 1.4, 1.8** |

|  |
| --- |
| **Explain the procedure for reporting damage to vehicle electrical components and units** |
|  |
| **Identify components to be removed and re-fitted** | **Remove****And** **Re-fit** ✔ | **Sources of Information Used** |
| Manual✔ | Autodata✔ | Thatcham eScribe✔ | Internet✔ | Other(State) |
| Batteries |  |  |  |  |  |  |
| Headlamp units  |  |  |  |  |  |  |
| Starter motor |  |  |  |  |  |  |
| Alternator |  |  |  |  |  |  |
| Door lock actuator/motor |  |  |  |  |  |  |
| Window motor |  |  |  |  |  |  |
| Wiper/washer motor |  |  |  |  |  |  |
| **Explain the procedures involved in the removal and refitting of the selected components**(if this component is a gas discharge headlamp system please include any special precautions or procedures) |
|  |
| **Identify the procedure involved in working with, and fitting supplementary safety systems (e.g. SRS, Airbag)** |
|  |
| **After removal please state the procedure for correct storage of the Supplementary Safety System (SRS) components** |
|  |

|  |  |
| --- | --- |
| **Task 2 – Head lamps** | **Assessment Criteria 1.5, 1.6, 1.7** |

|  |
| --- |
| **Headlamp Adjustment** |
|  |
| **Alignment and Quality Checks** |
| **Explain the following:** |
| **How to correctly align chosen components** |  |
| **Reasons for correct alignment** |  |
| **List the quality checks and procedures associated with this task** |
|  |
| **Identify correct conformity of vehicle systems against vehicle specification (e.g. legal requirements of lighting systems)** |
|  |

|  |  |
| --- | --- |
| **Task 3 – Component construction and operation** | **Assessment Criteria 2.1, 2.2** |

|  |
| --- |
| **Briefly describe the construction and basic operation of the following components** |
| **Batteries** |  |
| **Headlamp units**  |  |
| **Starter motor** |  |
| **Alternator** |  |
| **Door lock actuator/motor** |  |
| **Window motor** |  |
| **Wiper/washer motor** |  |

1. Unless otherwise stated e.g. for some entry level qualifications, learners can work together but should identify sections which are their own work. [↑](#footnote-ref-1)