SEG Awards Level 2

Motor Vehicle Studies

**Underpinning Knowledge Evidence Record**

J/601/6083 Knowledge of Inspection and Replacement of Light Vehicle Suspension Dampers and Springs

|  |  |
| --- | --- |
| **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 | Hand tools | 1.1 |
| 2 | Suspension components | 2.1, 2.2 |
| 3 | Suspension systems | 3.1, 3.2, 3.3, 3.4, 3.5 |

|  |  |
| --- | --- |
| **Task 1 – Hand tools** | **Assessment Criteria 1.1** |

**Complete the table below identifying hand and specialist tools for the replacement of suspension components, safety checks to be carried out, and how to use the tool safely**

|  |
| --- |
| **Hand and Specialist Tools for the replacement of suspension components** |
| **Name of tools** | **Tool safety checks** | **Explain how you would use the tool safely** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |
| --- | --- |
| **Task 2 – Suspension components** | **Assessment Criteria 2.1, 2.2** |

|  |
| --- |
| **Instructions to Learners** Investigate THREE suspension systems and complete a report for each  |

|  |
| --- |
| **Report 1** |
| Suspension Type | Type of Spring | The spring is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | The damper is a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_type and is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
|  |  |

|  |
| --- |
| **Report 2** |
| Suspension Type | Type of Spring | The spring is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | The damper is a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_type and is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
|  |  |

|  |
| --- |
| **Report 3** |
| Suspension Type | Type of Spring | The spring is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | The damper is a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_type and is positioned between the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.It’s function is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
|  |  |

|  |
| --- |
| **Describe the legal requirements relating to dampers and springs** |
|  |

|  |  |
| --- | --- |
| **Task 3 – Suspension systems** | **Assessment Criteria 3.1, 3.2, 3.3, 3.4, 3.5** |

|  |
| --- |
| **Describe how you would safely test the function of the suspension components**  |
|  |

|  |
| --- |
| **Instructions to Learners** 1. Examine a vehicle suspension system for faults2. Complete the inspection report noting findings |
| **Suspension Condition Report** |
| **Type of Suspension** | **Leakage** | **Corrosion** | **Damage** | **Security** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

|  |
| --- |
| **Describe safe removal and replacement procedures that conform to legal requirements associated with suspension dampers and springs** |
|  |
| **Describe how you would check camber and road wheel alignment settings** |
|  |

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)