SEG Awards Level 2

Motor Vehicle Studies

**Underpinning Knowledge Evidence Record**

M/502/6354 Knowledge of Removing Dents and Creases from Motor Vehicle Flat Panels

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| --- | --- |
| **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.

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| --- | --- | --- | --- |
| Learner Name |  | | |
| Unique Learner Number (ULN) |  | SEG  Learner 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.

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| --- | --- | --- | --- |
| 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**

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| **Task No** | **Title** | **Assessment Criteria** |
| 1 | Damage assessment process | 1.1, 1.2, 1.3, 1.4 |
| 2 | PDR tools | 2.1, 2.2 |
| 3 | PDR repair process | 2.3, 2.4, 2.5, 2.6, 2.7, 2.8 |
| 4 | Post repair inspection | 3.1, 3.2, 3.3 |

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| **Task 1 - Damage assessment process** | **Assessment Criteria 1.1, 1.2, 1.3, 1.4** |

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| **Describe how to assess the size, depth and plane of damage and any additional damage in paintless dent removal (PDR) refinishing in flat panels** |
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| **Identify the best course of action to carry out a PDR repair on a 20mm dent on a non-restricted access flat panel referring to manufacturers guidelines** |
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| **Identify the action to be taken if the PDR repair cannot be carried out to the standard required referring to manufacturers guidelines** |
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| **Task 2 - PDR tools** | **Assessment Criteria 2.1, 2.2** |

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| **In the table below identify 5 tools used for PDR repairs to motor vehicle flat panels and state how to prepare, test, use and maintain them** | |
| **Name of tool** | **State how to prepare, test, use and maintain the tools** |
|
| **1.** |  |
| **2.** |  |
| **3.** |  |
| **4.** |  |
| **5.** |  |

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| **Task 3 - PDR repair process** | **Assessment Criteria 2.3, 2.4, 2.5, 2.6, 2.7, 2.8** |

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| **Describe how to prepare damaged areas to facilitate repairs** |
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| **Describe how to repair and reinstate vehicle body panel contours** |
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| **Complete the table below describing the implications of working with metals and how heat can assist in the reforming of panels.** | | |
| **Material** | **Describe the implications of working with the following metals** | **Describe how heat can assist in reforming panels but also affect the properties of the following metals** |
| **Mild steel** |  |  |
| **High and ultra high strength steel** |  |  |
| **Aluminium alloys** |  |  |
| **Galvanised coatings** |  |  |

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| **Describe how to prepare and protect the vehicle being repaired from cross contamination** |
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| **In the table below identify 3 PDR techniques and the methods used for repairing motor vehicle flat panels** |
| **PDR Techniques** |
| **1.** |
| **2.** |
| **3.** |

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| **Describe the consequences of using inappropriate repair methods** |
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| **In the table below describe the causes of faults that can occur when repairing panels using PDR techniques** | |
| **Faults** | **Causes of fault** |
| **Damaged wiring** |  |
| **Protective coating** |  |
| **SRS systems** |  |

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| **In the table below describe the procedures for reinstating the following materials** | |
| **Material** | **Explanation of Procedure** |
| **Anti-corrosion materials** |  |
| **Sealants** |  |
| **Sound deadening**  **materials** |  |

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| **Task 4 - Post repair inspection** | **Assessment Criteria 3.1, 3.2, 3.3** |

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| **Identify and describe 3 methods used to check accuracy of repaired contours after reshaping** | |
| **Method Used** | **Describe how to use the method to check accuracy of repaired contour** |
| **1.** |  |
| **2** |  |
| **3** |  |

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| **Identify the need for correct alignment of components and the methods used to achieve this** |
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| **List the quality checks that can be used to ensure a correct PDR repair, include checks for correct alignment and operation of any removed and refitted components during repair** |
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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)