SEG Awards Level 2

Motor Vehicle Studies

**Underpinning Knowledge Evidence Record**

J/601/6116 Knowledge of Tools and Equipment used in Vehicle Refinishing

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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) |  | 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.

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| --- | --- | --- | --- |
| 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 | Tools and equipment | 1.1, 1.3, 1.4, 1.5, 2.2 |
| 2 | Air compressors | 1.6, 2.3, |
| 3 | Workshop equipment | 2.1, 2.2, |
| 4 | Spray guns | 1.2, 1.7, 1.8, 1.9 |

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| **Task 1 - Tools and equipment** | **Assessment Criteria 1.1, 1.3, 1.4, 1.5, 2.2** |

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| **Describe the uses and limitations of common types of hand and power tools used for vehicle refinishing**  |
| **Name of tool** | **Use of tool** | **Limitations of tool** |
| **Flatting block** |  |  |
| **Air duster** |  |  |
| **Random orbit sander** |  |  |
| **Orbital flat bed sander** |  |  |
| **Vacuum extraction sander** |  |  |
| **Gravity feed spray gun** |  |  |
| **Spray gun cleaning machine** |  |  |
| **Denibbing block** |  |  |
| **Polishing mop** |  |  |

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| **Describe the preparation, maintenance, correct storage and safety precautions required when using hand and power tools for vehicle refinishing**  |
| **Name of tool** | **Preparation and maintenance requirements** | **Correct storage requirements** | **Safety precautions when using tool** |
| **Flatting block** |  |  |  |
| **Air duster** |  |  |  |
| **Random orbit sander** |  |  |  |
| **Orbital flat bed sander** |  |  |  |
| **Vacuum extraction sander** |  |  |  |
| **Gravity feed spray gun** |  |  |  |
| **Spray gun cleaning machine** |  |  |  |
| **Denibbing block** |  |  |  |
| **Polishing mop** |  |  |  |

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| **Task 2 - Air compressors** | **Assessment Criteria 1.6, 2.3,** |

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| **Describe the methods of adjusting compressed air pressures by use of:** |
| **Transformer/regulator** |  |
| **Spray gun pressure gauge** |  |

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| **Select 3 from the list below and describe the maintenance requirements** |
| **Tank drainage** |  |
| **Ring drainage** |  |
| **Regular maintenance and service logs** |  |
| **Air quality checks (breathable air)** |  |
| **Air filter/cartridge changes** **(breathable air)** |  |
| **Oil level** |  |

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| **Task 3 - Workshop equipment** | **Assessment Criteria 2.1, 2.2,** |

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| **Complete the table below identifying the correct category for the workshop equipment listed** |
| **Name of Equipment** | **Category** |
| **Forced Drying Equipment**✔ | **Compressed Air System**✔ | **Masking materials and Vehicle protection Equipment**✔ | **Paint Mixing**✔ |
| **Air feed breathing equipment** |  |  |  |  |
| **Automatic paper and tape dispenser** |  |  |  |  |
| **Combi-booth** |  |  |  |  |
| **Complete car covers dispenser** |  |  |  |  |
| **Compressor** |  |  |  |  |
| **Flexible air hoses** |  |  |  |  |
| **Infra-red drying** |  |  |  |  |
| **Main air line** |  |  |  |  |
| **Paint mixing scheme** |  |  |  |  |
| **Plastic sheet dispenser** |  |  |  |  |
| **Pressure gauges**  |  |  |  |  |
| **Separate oven** |  |  |  |  |
| **Smart scales** |  |  |  |  |
| **Transformer/regulator** |  |  |  |  |
| **Viscosity measuring equipment** |  |  |  |  |
| **Water traps** |  |  |  |  |
| **Wheel cover dispenser** |  |  |  |  |

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| **Task 4 - Spray guns** | **Assessment Criteria 1.2, 1.7, 1.8, 1.9** |

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| **List the main parts of a spray gun** |
| **1.** |
| **2.** |
| **3.** |
| **4.** |
| **5.** |
| **6.** |
| **7.** |
| **8.** |
| **9.** |
| **10.** |

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| **Describe the operation of gun cleaning machines;** |
| **Solvent** |  |
| **Water based** |  |

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| **Describe the cleaning and maintenance of suction/gravity spray guns;** |
| **Partial Strip Down** | **Complete Strip Down** |
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| **Identify 4 common spray gun faults, their cause and recommended rectification** |
| **Spray Gun Fault** | **Cause** | **Rectification** |
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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)