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| UNIT REF: ET133 | LEARNER SUPPORT MATERIAL TASK SHEET:  **UNIT TITLE: INTRODUCTION TO LOW CARBON TECHNOLOGIES IN THE AUTOMOTIVE INDUSTRY – Greener Driving** |

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| **Level: 1** | **Unit Ref: ET133** | **Assessment No:** |
| **Unit Title:** | **Introduction to Low Carbon Technologies in the Automotive Industry** | |
| **Learner Name:** |  | **Learner No:** |

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| **INSTRUCTIONS FOR LEARNERS – PLEASE READ CAREFULLY**  **Ensure that your name and learner number are written clearly on all your answer sheets.**   1. This assessment may be completed in your own handwriting or if you prefer you may use a word- processor. 2. The standard of presentation, neatness and accuracy of your answers will be taken into account when marking your work. 3. Your assessor will brief you about this assessment prior to starting. 4. To complete some aspects of the assessment you may need to refer to textbooks, and Technical manuals. 5. Please show all your workings out in your answers. 6. Each question has been given a pass mark that must be achieved. The assessment will be graded as follows:   Marks required for a Pass – 30/50  **This assessment forms part of your overall assessment for this unit and may be shown to the external verifier when he/she visits your college or training centre. Failure to present your assessment on time may affect the marks you can achieve for your work.** |

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| **Date of issue for this assessment:** |  |
| **Date for completion of this assessment:** |  |

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| **Important notes:**   1. **You should attempt all questions.** 2. **Please read each question carefully.** 3. **Ensure you write the number of each question on the left-hand side of your answer sheet.** |

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| **UNIT REF:ET133** | WRITTEN ASSESSMENT  **UNIT TITLE: INTRODUCTION TO LOW CARBON TECHNOLOGIES IN THE AUTOMOTIVE INDUSTRY** |

1. Give four examples of driving styles that harm the environment. (8 marks)

2. Give four examples how carbon emissions can be reduced when travelling. (8 marks)

3. State four exhaust emissions produced by a conventional vehicle and the impact of each emission on the environment. (8 marks)

4. State the meaning of carbon footprint. (4 marks)

5. State common vehicle parts that may be recycled. (8 marks)

6. Identify four new types of engine and propulsion methods in current vehicles and those of the near future, and give an example of the benefits to users and the environment. (8 marks)

7. Describe how the use of bio-fuels can reduce carbon emissions. (6 marks)