# Unit L1AM05: Engine Cooling System Components and Maintenance

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| Vehicle Details | | | |
| Reg No: |  | Approx. Year: |  |
| Make: |  | Model: |  |
| Eng/VIN no: |  | | |

## Practical Support Material: Engine Cooling System Maintenance

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| Customer request: | | [Tick tasks carried out ✓] |
| 1. Remove and refit a radiator, thermostat and refill the cooling system | |  |
| 1. Check the condition of a coolant pump drive belt | |  |
| 1. Use the correct procedure to pressure test the cooling system and check for leaks | |  |
| 1. State to your assessor: 2. 2 reasons why anti-freeze is added to water to make engine coolant   Ans   1. the purpose of coolant in the engine’s cooling system   Ans   1. the purpose of the cooling system radiator   Ans | |  |
| Brief description of work carried out and recommendations for repair: | | |
|  | | |
| PPE work and special precautions taken: | Technical data used to complete task: | [Tick ✓] |
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| Special tools used including any calibration required: | Further faults found: | |
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## Practical Support Material Assessor Record: Engine Cooling System Maintenance

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|  | Tick [✓] | Written feedback (with reference to the Assessment Criteria) must be given when a learner is referred: | | |
| **PASS**  I confirm that the learner’s work was to an acceptable standard and met the Assessment Criteria of the unit |  |  | | |
| **REFER**  The work carried out did not achieve the standards specified by the Assessment Criteria *(*written feedback to learner) |  |  | | |
| Assessor’s Name [Print]: | | Assessor’s PIN: | | Date: |
|  | |  | |  |
| The section below is only to be completed once the assessor’s decision has been made and feedback given to the learner: | | | | |
| The section below is to be completed by the learner: | | | | |
| I confirm that the work carried out was my own, and that I received feedback from the assessor | | Learner’s Name: | Learner’s Signature: | Date: |
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| Learning Outcome/Assessment Criteria | Passed [Tick ✓] |
| 1. **Know about engine cooling systems**    1. Identify the main components used in engine liquid cooling and air-cooling systems    2. State the purpose of the main components used in engine liquid cooling and air-cooling systems |  |
| 1. **Know how engine cooling systems operate**    1. State the operating principles of engine liquid cooling and air cooling systems |  |
| 1. **Know how to carry out routine maintenance to engine cooling systems**     1. State how to remove, inspect and replace engine cooling system components |  |
| 1. **Be able to carry out routine maintenance on engine liquid cooling systems**    1. Work safely during cooling system maintenance    2. Select and use the correct technical data, tools and equipment for routine maintenance of liquid cooling systems    3. Demonstrate the correct procedures when: 2. removing and refitting a radiator and thermostat and refilling the cooling system 3. checking the condition of coolant pump drive belts 4. pressure testing the cooling system and checking for leaks |  |