# Unit L1AM03: Engine Operation and Components

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

## Practical Support Material: Remove and Refit an Engine Cylinder Head

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| Customer request: | [Tick tasks carried out ✓] |
| 1. Remove, inspect and refit an engine cylinder head
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| 1. State to your assessor:
2. the terms used to describe the four-stroke cycle
3. the meaning of the terms:
4. TDC
5. BDC
6. IVO
7. EVC
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| Brief description of work carried out and recommendations for repair: |
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| 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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| Learning Outcome/Assessment Criteria | Passed [Tick ✓] |
| 1. **Know the common internal combustion engine systems and components**
	1. Identify the main components used in 2 and 4 stroke engines
	2. State the purpose and function of the main components used in 2 and 4 stroke engines
	3. Outline the purpose of the main engine systems used in 2 and 4 stroke engines
	4. Outline the general use and application of engine types
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| 1. **Know how common internal combustion engines operate**
	1. State the operating cycles of both 2 and 4 stroke engines
	2. State the difference between petrol and diesel engine operation
	3. Outline the differences between 2 stroke, petrol and diesel 4 stroke fuel systems
	4. Identify the main exhaust gas emissions
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| 1. **Know how to carry out routine maintenance to engine mechanical components**
	1. State how to remove, inspect and replace an engine cylinder head
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| 1. **Be able to remove and refit an engine cylinder head**
	1. Work safely during engine maintenance
	2. Select and use the correct technical data, tools and equipment for the removal and replacement of an engine cylinder head
	3. Demonstrate the correct procedures to remove, inspect and refit an engine cylinder head
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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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## Practical Support Material Assessor Record: Remove and Refit an Engine Cylinder Head