

**Unit Title:** Vehicle Engine Operating Principles  
**Unit Level:** Entry 3  
**Unit Credit Value:** 4  
**GLH:** 40  
**LASER Unit Code:** WJC284  
**Ofqual Unit Code:** A/506/0992

This unit has 3 learning outcomes.

LEARNING OUTCOMES		ASSESSMENT CRITERIA	
The learner will:		The learner can:	
1.	Be able to follow approved and safe procedures when working on engine systems.	1.1	Correctly use required PPE.
		1.2	Follow approved workplace procedures.
		1.3	Identify potential health and safety hazards and risks.
		1.4	Identify the relevant information sources.
		1.5	State the importance of keeping records.
2.	Know the principles of vehicle engine operation.	2.1	Identify the major components of engine operating principles and its systems.
		2.2	State the operation and purpose of the following; crankshaft and bearings, cylinder head gasket, lubricating oils, cylinder head, valves or ports, piston and rings.
3.	Know about how to dismantle and reassemble engines.	3.1	Identify the correct tools and equipment and check they are fit for purpose.
		3.2	Correctly use tools and equipment.
		3.3	Carry out examination methods.
		3.4	Identify the main engine components.
		3.5	Outline how to perform basic engine component removal and fitting techniques.
		3.6	State how to recognise and report damaged or missing parts and components.
		3.7	Identify codes and grades of lubricants and coolant.

**Assessment Guidance:**

NA

**Additional Information:**

NA