

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 tools and equipment to use.
		3.2	Check tools and equipment are fit for purpose.
		3.3	Use tools and equipment safely.
		3.4	Carry out examination methods.
		3.5	Identify the main engine components.
		3.6	Outline how to perform basic engine component removal and fitting techniques.
		3.7	Recognise and report damaged or missing parts and components.
		3.8	Identify codes and grades of lubricants and coolant.

Assessment Guidance:

Current legal and regulatory frameworks and guidance as well as accepted good practice must be applied to the delivery of this unit.

Additional Information:

NA