

National Apprenticeship - Occupational Profile

Craft Occupation

Construction Plant Fitting

Industry Served

Construction/Engineering

Profile of Craft

Construction Plant Fitters are generally employed in the construction and engineering industries. The vast range of equipment within the industries requires that the plant fitter will be multi-skilled in the maintenance and repair of engines, transmissions, hydraulic systems and small plant. The ability to diagnose and rectify electrical faults in plant is also within the scope of the Construction Plant Fitter. Because of the high cost of “machine time” the major part of the maintenance and repair work is carried out “on site”.

At the end of the apprenticeship, the craftsperson will be able to demonstrate competence in the following skills:

Core Skills

Procedures for:

- Disassembling and assembling
- Fgas: Describe the overall aim of Regulation No. 842/2006 of the European Parliament and of the Council of 17 of May 2006 in relation to the air conditioning systems of automotive vehicles (MACs).

List the dangers to personal health and related safety regulations related to the refrigerant gas contained in mobile air conditioning (MAC) systems.

Describe the location of possible leaks of refrigerant gas from an automotive air con unit.

- Fault finding and diagnosing
 - Inspecting and repairing
 - Servicing and maintaining
 - Overhauling
 - Computer operating
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Specialist Skills

Repair and maintenance of:

- Tracked vehicles
- Small two-stroke engines
- Mobile hydraulic systems
- Single cylinder diesel engines
- Mobile air compressors
- Power-shift transmissions
- Torque-converters
- Mobile Air Conditioning (MAC) systems.

Discuss and demonstrate best practice for handling of Fgases storage cylinders, the safe recovery and disposal of Fgas. Perform full servicing of an air conditioning system of an automotive vehicle to include: leak detection, recovery, vacuum and refill.

Common Skills

Servicing, repair and overhaul of:

- Electrical systems
- Brake systems
- Transmissions
- Suspension systems
- Diesel fuel systems
- Petrol fuel systems
- Steering
- Engines
- Safety procedures

Personal Skills

- Communication
- Customer relations
- Adaptability
- Ability to work as a team member
- Ability to work independently
- Problem solving
- Planning and organisation
- Information gathering
- Report writing
- Interpretation and application of data

NOTE: Integrated curriculum includes maths, science and theory
