

# FIXED AND MOBILE PLANT MECHANIC

ALSO KNOWN AS:

DIESEL FITTER

MOBILE PLANT MECHANIC

DIESEL MECHANIC

PLANT MECHANIC

## BE THE DRIVING FORCE BEHIND THE EFFICIENCY AND RELIABILITY OF THE MACHINES THAT SHAPE OUR WORLD.

Use your technical skills to keep industrial engines roaring and heavy machinery moving, directly impacting the success of manufacturing giants, construction marvels, and resource extraction operations. Your expertise will be the driving force behind the efficiency and reliability of the machines that shape our world.

### KEY SKILLS

Skills which may benefit anyone considering a job as a fixed and mobile plant mechanic include:

- ☑ Diagnostic acumen
- ☑ Safety awareness
- ☑ Welding
- ☑ Hydraulic systems knowledge
- ☑ Technical proficiency

### CAREER PROGRESSION

In this role, you may have the opportunity to progress to other positions. Career progression opportunities include:

- Mechanical Engineering Supervisor
- Recreational Vehicle Manufacturing Technician
- Business Manager
- Project Engineer

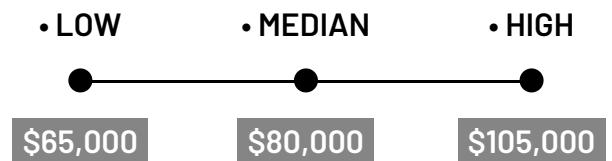
### VALUES & ATTRIBUTES

Values and attributes of anyone considering a job as a fixed and mobile plant mechanic include:

- ☑ Analytical
- ☑ Patience
- ☑ Attention to detail
- ☑ Innovative
- ☑ Analytical
- ☑ Investigative – “Thinker”

### SALARY EXPECTATION

The expected salary for a Fixed and Mobile Plant Mechanic can vary across different areas of manufacturing and may vary as you become more experienced.



### RELATED INDUSTRIES

▶ Aerospace and Defence ▶ General Manufacturing and Engineering ▶ Transport Equipment and Machinery

### RECOMMENDED SCHOOL SUBJECTS

- Physics
- Science (7-10)

### CORE SCHOOL SUBJECTS

- General Mathematics
- Essential English
- Engineering
- Engineering Skills

## JOB OVERVIEW

As a fixed and mobile plant mechanic you'll play a vital role in the maintenance, repair, and optimisation of diesel-powered vehicles and machinery. Your responsibilities will span a wide range of equipment, including trucks, tractors, buses, generators, marine engines, and industrial pumps. You'll be the go-to expert for diagnosing issues, performing repairs, and ensuring that all diesel-powered systems operate at peak efficiency.

You will work with an extensive array of specialised tools and equipment to perform your duties effectively. Your toolkit will include diagnostic computers and scanners for identifying complex engine issues, precision measuring instruments like micrometres and dial indicators for ensuring component accuracy, and heavy-duty lifting equipment such as engine hoists and transmission jacks. You'll become proficient with power tools like impact wrenches and air compressors, as well as specialised equipment such as fuel injection test benches and dynamometers for engine performance testing. Additionally, you'll use welding equipment for repairs and modifications, and operate sophisticated machine tools like lathes and milling machines for custom part fabrication. This diverse range of equipment allows you to tackle everything from routine maintenance to complex repairs, ensuring the optimal performance of diesel-powered machinery across various industrial applications.

Expect to work in various settings, from workshops and factories to on-site locations. Your expertise will be essential in industries such as manufacturing, mining and resources, transport and logistics, and wholesale trade. You'll be responsible for not only mechanical repairs but also for maintaining hydraulic systems, welding, and using advanced diagnostic tools to troubleshoot complex issues. Your work will directly impact productivity, safety, and operational costs.

## WHAT WILL YOU DO?

Your role may include duties as follows:

1. Install heating, ventilation, air conditioning, and refrigeration systems
2. Diagnose and repair faults in HVAC/R equipment
3. Perform preventive maintenance on climate control systems
4. Ensure compliance with environmental regulations regarding refrigerants
5. Optimise system performance for energy efficiency

## HOW TO BECOME A FIXED AND MOBILE PLANT MECHANIC

Becoming a Fixed and Mobile Plant Mechanic offers an exciting entry point into and career in manufacturing.

1. Diagnose, repair, and overhaul diesel, petrol, and gas-powered vehicles and machinery
2. Maintain and repair hydraulic components of diesel-powered attachments
3. Dismantle, repair, and reassemble engines, transmissions, and other critical components
4. Perform various welding techniques and machining processes for parts replacement and repair
5. Conduct thorough inspections and performance tests on repaired equipment

## VOCATIONAL EDUCATION & TRAINING

An apprenticeship with a manufacturer is the best pathway to gain employment as a Fixed and Mobile Plant Mechanic. You can undertake the following qualifications as apprenticeships:

- Certificate III in Engineering – Fixed and Mobile Plant Mechanic (MEM31419)

As an apprentice you will combine work with formal training, allowing you to gain practical skills and knowledge in a specific trade while earning a salary.

**Duration:** Apprenticeships typically last up to 4 years for full-time participants. Part-time apprenticeships may take longer, depending on the individual's work schedule and training progress.

**Work and study combination:** As an apprentice you will work either full-time or part-time while receiving formal training from a Registered Training Organisation (RTO). School-based apprenticeships may be available.

**Eligibility:** Generally, apprenticeships do not require any formal qualifications to enter, making them accessible to a wide range of individuals, including if you are a school leaver or someone looking to change careers. There are minimum age requirements and there may be other eligibility criteria.

**Completion:** On completion you will receive a nationally recognised trade qualification, showcasing your skill and experience.

### Skills, qualifications, accreditations and licences

A Fixed and Mobile Plant Mechanic may choose to pursue other training or certifications, licences and tickets. Qualifications and skills may be required to progress to supervisor or team leader positions.

Qualifications that may help you advance in your career include:

- Certificate IV in Engineering (MEM40119)
- Diploma of Engineering – Advanced Trade (MEM50119)
- Certificate IV in Leadership and Management (BSB40520)
- Certificate IV in Business (BSB40120)

## UNIVERSITY & HIGHER EDUCATION

Holding a degree in human resources, finance, economics, marketing or management can be helpful if you are considering taking a step into leadership or a business ownership position.

Undertaking higher level learning at an undergraduate or graduate level in an engineering field would support deeper learning of technical concepts and theories, and support career advancement.