



## MECHANICAL FITTING AND MACHINING

This apprenticeship will provide you with a comprehensive practical and theoretical base to help you develop mechanical skills, an understanding of technical procedures, concepts and knowledge of safe working practices.

Mechanical fitters carry out repairs and maintenance to a wide range of mechanical equipment such as pumps, hydraulic and pneumatic systems, process compressors, gas turbines and other mechanical components.

### Tasks

Throughout your apprenticeship, you will gain skills and experience across areas including:

- Carrying out basic engineering calculations
- Developing skills using a wide range of hand and power operated tools
- Using electric welding and fuel gas cutting equipment
- Interpreting technical workshop drawings
- Installing, commissioning, testing and repairing a variety of machinery to manufacturer's specifications
- Installing and maintaining mechanical power transmission equipment
- Servicing, repairing and carrying out diagnostic work on hydraulic and pneumatic equipment
- Repairing and maintaining medium size compression ignition (diesel engines)
- Testing and maintaining pumps and pumping systems

### QUALIFICATION RECEIVED ON COMPLETION:

- Certificate III in Engineering - Mechanical Trade (Fitting and Machining)

## ELECTRICAL INSTRUMENTATION

This apprenticeship will provide you with a comprehensive practical and theoretical base to develop your electrical instrumentation skills. This apprenticeship also focuses on developing your safety which is high priority in this work environment.

This role involves the routine maintenance of equipment including repair, fault finding and assisting with shutdown activities including the overhaul of equipment, such as gas turbines, compressors and generators.

### Tasks

Throughout your apprenticeship, you will gain skills and experience across areas including:

- Interpreting electrical diagrams
- Operating and maintaining control systems
- Understanding and use of Process and Instrumentation Drawings and Loop Drawings
- Maintenance procedures and fault finding techniques on process equipment
- Fault finding of single and three phase equipment and control circuits
- The operation, application and control of single phase and three phase motors
- Installing electrical wiring systems in industrial environments
- Carrying out checks and tests to ensure electrical installations are safe, in accordance with legislation and regulations
- Working in a team environment and display safe work behaviours
- Ensuring plant integrity by raising, administering and performing planned and corrective work
- Maintenance of instrumentation and process control including flow, temperature, pressure and level
- Maintenance involving DCS and PLC Control Systems
- Exposure to installation and maintenance of electrical equipment in hazardous areas

### QUALIFICATION RECEIVED ON COMPLETION:

- Certificate III in Electrotechnology Electrician
- Certificate III in Instrumentation and Control

## RECRUITMENT GUIDE

### Apply online

Apply online when applications open

Make sure to include your resume and a cover letter.

### Aptitude Test

This is a two hour computer based test, which will assess your word knowledge, mathematical skills, mechanical reasoning, spatial visual reasoning and abstract reasoning skills.

### Interviews

Shortlisted candidates will be invited to attend an interview which is an opportunity for us to get to know each other.

Expect to be asked about your knowledge of the role you have applied for, what you know about Programmed.

### Assessment Centre

This event is an opportunity for us to get to know you even better through a series of group activities.

### Final Screening

All shortlisted candidates will be required to:

- Provide two professional referees who have worked with you in a supervisory role
- Complete a Pre-Employment Medical
- Pass a National Police Clearance