

# MECHANICAL ASSEMBLER

ALSO KNOWN AS: **MANUFACTURING ASSEMBLER** **LINE ASSEMBLY WORKER**

## BRING COMPLEX MACHINERY TO LIFE, PIECE BY PRECISE PIECE.

As a mechanical assembler, you will work with simple and complex components individually or as part of a team to get equipment up and running.

### KEY SKILLS

Skills which may benefit anyone considering a job as a mechanical assembler include:

- ☑ Attention to detail
- ☑ Manual dexterity
- ☑ Problem solving
- ☑ Safety awareness
- ☑ Technical proficiency

### CAREER PROGRESSION

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

- Mechanical Engineering Tradesperson
- Electronics Tradesperson
- Engineering Technician
- Fixed and Mobile Plant Mechanic

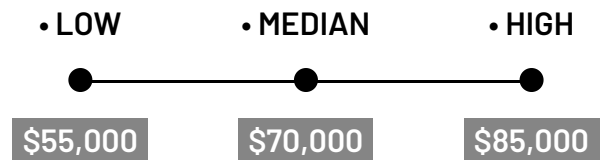
### VALUES & ATTRIBUTES

Values and attributes of anyone considering a job as a mechanical assembler include:

- ☑ Precision
- ☑ Efficient
- ☑ Reliable
- ☑ Adaptable
- ☑ Safety-conscious
- ☑ Realistic - "Do-er"

### SALARY EXPECTATION

The expected salary for a mechanical assembler 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

- Design
- Design and Technologies (7-10)
- Industrial Technology Skills

### CORE SCHOOL SUBJECTS

- Essential Mathematics
- Essential English
- Engineering Skills

## JOB OVERVIEW

Mechanical assemblers play a vital role in the manufacturing industry, responsible for putting together various mechanical parts and components to create finished products. These skilled workers are found in a wide range of sectors, from automotive and heavy equipment, aerospace to electronics and appliance manufacturing.

Working on assembly lines or at individual workstations, mechanical assemblers follow detailed blueprints and schematics to construct products accurately. They use a variety of hand tools, power tools, and specialised equipment to fit, align, and secure components. Precision and attention to detail are crucial, as even small errors can lead to malfunctioning products.

A typical day for a mechanical assembler might involve reading work orders, gathering necessary parts and tools, assembling components according to specifications, conducting quality checks, and troubleshooting any issues that arise during the assembly process. They must also adhere to safety protocols and maintain a clean, organised work area.

## WHAT WILL YOU DO?

Your role may include duties as follows:

1. Read and interpret technical drawings and assembly instructions
2. Gather and prepare components for assembly
3. Use various tools to fit, align, and secure parts
4. Conduct quality checks on assembled products
5. Troubleshoot and resolve assembly issues

## HOW TO BECOME A MECHANICAL ASSEMBLER

Becoming a Mechanical Assembler typically doesn't require formal qualifications to start, as many employers provide on-the-job training. However, having some technical knowledge can be advantageous. Here are steps to pursue this career:

1. Complete high school with a focus on mathematics and technical subjects.
2. Develop skills in reading technical drawings and using various tools.
3. If you have an interest, or some basic experience in a role like this, you can apply directly to an employer.
4. You may also find it useful to undertake a Certificate II in Engineering Pathways (MEM20422) while you are at school. This course will give you a good introduction to manufacturing concepts and equipment used.
5. Research potential employers in your area via a search engine, social media or job site. Even if there are no jobs advertised with the employer you're interested in, it can be a good idea to send a cover letter with your resume expressing your interest.

## VOCATIONAL EDUCATION & TRAINING

Many businesses that employ Mechanical Assemblers offer comprehensive in-house training programs to ensure their employees are well-equipped for the specific assembly tasks required. These programs often combine classroom instruction with hands-on practice, covering topics such as company-specific assembly procedures, quality control standards, and safety protocols. In-house training allows companies to tailor the learning experience to their unique production processes and equipment, resulting in a workforce that's highly skilled in the assembly techniques and standards of that organisation.

While not always required, vocational education can provide valuable skills for Mechanical Assemblers. Relevant qualifications include:

- Certificate III in Engineering – Mechanical Trade (MEM30219)
- Certificate III in Engineering – Fixed and Mobile Plant Mechanic (MEM31419)
- Certificate IV in Engineering (MEM40119)

These qualifications provide opportunities for career advancement and specialisation. In addition, other qualifications that support career advancement include:

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

## 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.