

# ADVANCED MARINE TECHNICIAN

ALSO KNOWN AS: **MARINE SYSTEMS SPECIALIST** **BOAT MECHANIC** **MARINE ENGINE TECHNICIAN**

**WATERCRAFT SERVICE TECHNICIAN**

## EMBARK ON A CAREER THAT COMBINES THE EXCITEMENT OF THE OPEN WATER WITH CUTTING-EDGE TECHNOLOGY.

As an Advanced Marine Technician, you'll ensure the smooth operation of maritime vessels, from leisure crafts to commercial ships.

### KEY SKILLS

Skills which may benefit anyone considering a job as a advanced marine technician include:

- ✔ Adaptable
- ✔ Customer service
- ✔ Physical stamina
- ✔ Technical proficiency
- ✔ Troubleshooting

### CAREER PROGRESSION

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

- Marine Engineer
- Chief Executive Officer
- Chief Operating Officer
- Business Manager

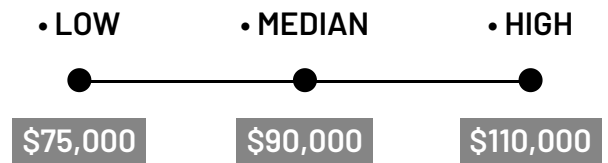
### VALUES & ATTRIBUTES

Values and attributes of anyone considering a job as a advanced marine technician include:

- ✔ Attention to detail
- ✔ Safety-conscious
- ✔ Resourceful
- ✔ Reliable
- ✔ Continuous learning
- ✔ Conventional - "Organiser"

### SALARY EXPECTATION

The expected salary for an Advanced Marine Technician 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
- Engineering
- Industrial Technology Skills

### CORE SCHOOL SUBJECTS

- General Mathematics
- Essential English
- Engineering Skills

## JOB OVERVIEW

Advanced Marine Technicians are the essential experts of the boating and shipping industries, ensuring that vessels of all sizes operate safely and efficiently. They specialise in the maintenance, repair, and overhaul of complex marine propulsion systems, electrical systems, and onboard equipment.

These skilled professionals play a crucial role in keeping Australia's maritime industry afloat, quite literally. Their work contributes to the safety of crew and passengers, the efficiency of shipping operations, and the enjoyment of recreational boating. Advanced Marine Technicians work with a wide range of tools and diagnostic equipment, from traditional wrenches to sophisticated computer-based systems.

A typical day might involve diagnosing engine problems, repairing electrical systems, performing routine maintenance on navigation equipment, or upgrading onboard technologies. The job requires a unique blend of mechanical aptitude, electrical knowledge, and problem-solving skills, often applied in challenging environments both on land and at sea.

## WHAT WILL YOU DO?

Your role may include duties as follows:

1. Diagnose and repair marine engines and propulsion systems
2. Maintain and service electrical and electronic systems on boats and ships
3. Install and upgrade marine equipment and technologies
4. Perform routine maintenance and safety checks on vessels
5. Advise boat owners and operators on proper care and operation of marine systems

## HOW TO BECOME A ADVANCED MARINE TECHNICIAN

Becoming an Advanced Marine Technician typically involves a combination of formal training and hands-on experience. While a university degree is not always required, specialised training is essential. Here's a pathway to enter this profession:

1. Complete Year 12 or equivalent, with a focus on maths and sciences
2. Complete a Certificate III in Marine Craft Construction (MEM30719) or Certificate III in Boating Services (MEM30919) as an apprenticeship with an employer.
3. Look for an employer with job opportunities, or send an employer your resume and letter expressing interest.
4. Undertake higher level qualifications in marine manufacturing and technology
5. Continuously update skills to keep pace with evolving marine technologies

## VOCATIONAL EDUCATION & TRAINING

Vocational education plays a crucial role in preparing Advanced Marine Technicians for their careers. Several qualifications can provide the necessary skills and knowledge:

- Certificate III in Marine Craft Construction (MEM30719)
- Certificate III in Boating Services (MEM30919)
- Certificate IV in Boating Services (MEM40222)
- Diploma of Marine Engineering (MAR60120)
- Advanced Diploma of Marine Engineering (Class 1) (MAR60220)

These qualifications cover various aspects of marine technology, from basic mechanics to advanced electronic systems. Additional short courses or certifications in specific areas like marine electrical systems or outboard motors can further enhance career prospects.

## UNIVERSITY & HIGHER EDUCATION

While not typically required, some Advanced Marine Technicians may choose to pursue higher education to advance their careers or specialise in certain areas. Relevant degree programs might include Bachelor of Engineering (Marine and Offshore Engineering) or Bachelor of Applied Science (Marine Engineering). These programs provide a deeper understanding of marine systems design and management, which can be beneficial for those aiming for senior technical or management roles in the maritime industry. The theoretical knowledge gained through these degrees complements the practical skills acquired through vocational training and on-the-job experience.