

PROCESS PLANT TECHNOLOGIST

ALSO KNOWN AS:

CHEMICAL PLANT TECHNOLOGIST

REFINERY TECHNOLOGIST

CHEMICAL PROCESS TECHNOLOGIST

BRIDGE THE GAP BETWEEN OPERATORS AND ENGINEERS.

Elevate your career to the next level as a Process Plant Technologist. Bridge the gap between operators and engineers, applying your technical expertise to optimise production processes, troubleshoot complex issues, and drive continuous improvement in cutting-edge manufacturing facilities.

KEY SKILLS

Skills which may benefit anyone considering a job as a process plant technologist include:

- ☑ Chemistry or biology skills
- ☑ Data analysis
- ☑ Problem solving
- ☑ Project management
- ☑ Technical documentation comprehension

CAREER PROGRESSION

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

- Process Plant Manager
- Chemical Engineer
- Chemical Technician
- Biofuels Technologist

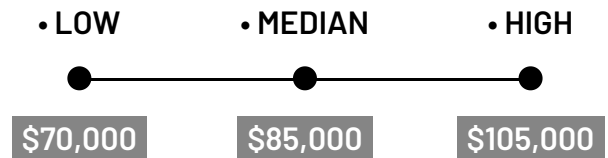
VALUES & ATTRIBUTES

Values and attributes of anyone considering a job as a process plant technologist include:

- ☑ Attention to detail
- ☑ Innovative
- ☑ Safety-conscious
- ☑ Continuous learning
- ☑ Results-oriented
- ☑ Conventional – “Organiser”

SALARY EXPECTATION

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



RELATED INDUSTRIES

- ▶ Chemicals, Hydrocarbons and Refining

RECOMMENDED SCHOOL SUBJECTS

- Engineering
- Industrial Technology Skills

CORE SCHOOL SUBJECTS

- Essential Mathematics
- Essential English
- Engineering Skills
- Chemistry

JOB OVERVIEW

As a Process Plant Technologist, you'll play a crucial role in ensuring the efficient and safe operation of process manufacturing facilities. You'll work closely with both plant operators and engineers, serving as a technical expert who can translate complex engineering concepts into practical operational procedures.

In this position, you'll be responsible for analysing process data, identifying areas for improvement, and implementing solutions to enhance productivity and product quality. You'll use your in-depth understanding of process equipment, control systems, and manufacturing principles to troubleshoot issues, optimise processes, and support the development of new production methods.

Your role will involve conducting technical assessments, preparing detailed reports, and contributing to process improvement projects. You'll also be involved in training operators on new procedures and technologies, ensuring that best practices are consistently applied across the plant.

WHAT WILL YOU DO?

Your role may include duties as follows:

1. Analyse process data and implement improvement initiatives
2. Troubleshoot complex technical issues in production processes
3. Assist in designing and implementing new production methods
4. Provide technical support and training to operators
5. Ensure compliance with safety, quality, and environmental regulations

HOW TO BECOME A PROCESS PLANT TECHNOLOGIST

To become a Process Plant Technologist, you typically need a combination of education and experience:

1. Often the minimum required qualification is a Diploma in Process Plant Technology (PMA50116) or a related field. You may also hold entry level Certificate II in Process Plant Operations (PMA20116) or Certificate III in Process Plant Operations (PMA30120). Some positions may require a bachelor's degree in chemical engineering, process engineering, or a related discipline.
2. Employers will often look for several years of experience as a Process Plant Operator or in a related role within a manufacturing environment.
3. Industry-specific certifications can be beneficial, such as those related to safety, quality management, or specific process technologies.
4. 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

Vocational education and training plays a crucial role in preparing you for a career as a Process Plant Technologist. If you are considering this career, you may already hold a relevant certificate II.

The following programs offer a perfect blend of theoretical knowledge and practical skills, ensuring you're well-equipped to handle the technical demands of modern process plants.

Key qualifications for this role include:

- Diploma of Process Plant Technology (PMA50116)
- Advanced Diploma of Process Plant Technology (PMA60116)

These qualifications may also provide a pathway to a relevant Bachelor's degree with a higher education provider.

UNIVERSITY & HIGHER EDUCATION

The following degrees can be beneficial for career advancement:

- Bachelor of Chemical Engineering
- Bachelor of Chemical Process Engineering
- Bachelor of Science (Chemistry)

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.