

# PROCESS PLANT OPERATOR

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ALSO KNOWN AS: CHEMICAL PLANT OPERATOR REFINERY OPERATOR

## BECOME A CRUCIAL LINK IN THE INDUSTRIAL CHAIN.

As a Process Plant Operator you will navigate the intricate world of chemical transformations, where raw materials become essential products that power our modern world. Your expertise will be the catalyst that drives efficiency, safety, and quality in cutting-edge manufacturing processes.

### KEY SKILLS

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

- ✔ Analytical skills
- ✔ Communication skills
- ✔ Problem solving
- ✔ Safety conscious
- ✔ Technical proficiency

### CAREER PROGRESSION

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

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

### VALUES & ATTRIBUTES

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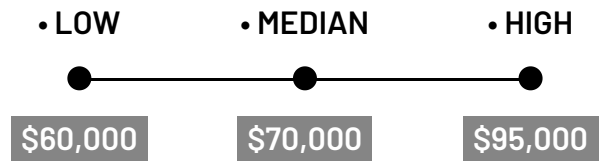
Values and attributes of anyone considering a job as a process plant operator include:

- ✔ Safety-conscious
- ✔ Reliable
- ✔ Calm
- ✔ Adaptable
- ✔ Attention to detail
- ✔ Realistic - "Do-er"

### SALARY EXPECTATION

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The expected salary for a Process Plant Operator 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 Operator, you'll be at the forefront of industrial production, managing sophisticated equipment that transforms raw materials into valuable products. Your role is critical in industries such as chemical manufacturing, petrochemicals, hydrocarbons, and metal/ore processing. You'll monitor and control complex systems, adjust production parameters, troubleshoot issues, and ensure adherence to strict safety and quality standards.

In this position, you'll operate a wide range of equipment including reactors, distillation columns, compressors, and control systems. You'll be responsible for maintaining optimal production efficiency, product quality, and workplace safety. Your day-to-day tasks will involve monitoring gauges, meters, and instrumentation, making necessary adjustments to keep processes within specified parameters.

Your expertise will be crucial in interpreting complex process data, identifying potential issues before they escalate, and taking corrective actions. You'll work closely with engineers, maintenance teams, and other operators to ensure smooth plant operations. As a Process Plant Operator, you'll also play a key role in implementing and maintaining safety protocols, environmental regulations, and quality control procedures.

## WHAT WILL YOU DO?

Your role may include duties as follows:

1. Operate and monitor complex process equipment and control systems
2. Control process parameters such as temperature, pressure, and flow rates
3. Perform regular quality checks on raw materials, in-process materials, and finished products
4. Respond to and troubleshoot process deviations and equipment malfunctions
5. Maintain accurate logs of production data, equipment performance, and incidents
6. Implement safety procedures and participate in safety drills and training and ensure compliance with environmental regulations and company policies

## HOW TO BECOME A PROCESS PLANT OPERATOR

To become a Process Plant Operator, you typically need to complete a Certificate II in Process Plant Operations (PMA20116).

This qualification is designed for operators in the hydrocarbons, petrochemical, chemical, metal/ore processing, and related process manufacturing industries.

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

If you are seeking employment with a process manufacturer you can undertake a traineeship:

- Certificate II in Process Plant Operations (PMA20116)
- Certificate III in Process Plant Operations (PMA30120)

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

**Duration:** Traineeships typically last up to 12 months, depending on the specific program and whether you are working full-time or part-time.

**Work and study combination:** As a trainee, you will work either full-time or part-time while receiving formal training from a Registered Training Organisation (RTO).

**Eligibility:** Generally, traineeships do not require 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.

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

### Skills, qualifications, accreditations and licences

As a Process Plant Operator, you 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:

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

## UNIVERSITY & HIGHER EDUCATION

While not typically required for entry-level positions, 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.