

TRAINING TITLE

PETROCHEMICAL PLANT OPERATIONS FOR OPERATOR

Training Duration

5 day

Training Venue and Dates

Ref. No. PE170	Petrochemical plant operations for operator	5	30 June- 04 July 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This training program is designed to provide petrochemical plant operators with the essential knowledge and practical skills to operate, monitor, and control various systems and processes involved in petrochemical production. The course will cover fundamental concepts of petrochemical processes, plant equipment, safety protocols, troubleshooting techniques, and maintenance procedures to enhance operational efficiency and ensure safety in plant operations.

TRAINING OBJECTIVES

By the end of the course, participants will be able to understand

- Understand the basic principles of petrochemical processes.
- Operate, monitor, and control critical equipment in petrochemical plants.
- Implement safety measures and respond effectively to emergencies.
- Troubleshoot and diagnose common operational problems.
- Perform routine plant maintenance tasks and ensure compliance with operational standards.

WHO SHOULD ATTEND?

- Petrochemical plant operators with little to moderate experience.

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- New operators in the petrochemical industry.
- Maintenance personnel looking to enhance their operational knowledge.
- Supervisors and technicians who want to understand the operational side of the plant.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM:

Day 1: Introduction to Petrochemical Plants & Process Fundamentals

- Overview of petrochemical industry and plant operations
- Types of petrochemical products (e.g., polymers, fertilizers, fuels)
- Key processes in a petrochemical plant (distillation, cracking, polymerization)
- Introduction to process flow diagrams (PFDs) and piping & instrumentation diagrams (P&IDs)
- Basic plant equipment: pumps, compressors, reactors, heat exchangers

Day 2: Operating Principles & Control Systems

- Control systems in petrochemical plants (DCS, SCADA, PLCs)
- Process monitoring: measurements and sensors
- Understanding process variables: pressure, temperature, flow, level
- Control strategies for maintaining stable operations
- Operator's role in process optimization and troubleshooting

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Day 3: Safety, Environmental Considerations & Emergency Response

- Safety principles: HAZOP, PSM, and risk assessments
- Personal Protective Equipment (PPE) and safety gear
- Emergency shutdown systems and procedures
- Fire, gas detection, and leak prevention systems
- Environmental regulations and waste management in petrochemical plants

Day 4: Troubleshooting & Maintenance Procedures

- Identifying common operational problems in petrochemical processes
- Diagnostic tools and techniques for troubleshooting
- Routine maintenance procedures for critical equipment
- Preventive maintenance vs. corrective maintenance
- Effective communication with maintenance teams and supervisors

Day 5: Plant Optimization & Operator Best Practices

- Performance monitoring and KPIs for operators
- Operational efficiency and energy management
- Preventing and minimizing downtime
- Operator best practices for safety, efficiency, and team collaboration

NOTE:

Pre- & Post Tests will be conducted. www.definettraining.com
Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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