

# PLANT SHUTDOWN SYSTEMS

## PRD018

### COURSE DESCRIPTION

Many organizations spend millions on shutdowns and not a penny on learning what there is to learn and preserving it for future shutdown teams. This course covers plant shutdown systems. Discussions on the hazards recognition concepts, hazards related to various systems, alarms & shutdown signals, API safe charts, shutdown systems testing, shutdown systems maintenance.

### COURSE GOAL

To enhance the participants' knowledge, skills, and attitudes necessary to understand plant shutdown systems.

### COURSE OBJECTIVES

By the end of this course, participant will be able to:

- Understand hazards recognition concepts.
- Understand hazards related to different shutdown systems
- Be familiar with shutdown signals.
- Understand API safe charts.
- Test shutdown systems.

### WHO SHOULD ATTEND

- Production & Chemical engineers.
- Formans.

### COURSE DURATION

5 Working Days

### COURSE OUTLINES

- Hazards recognition concepts.
- Hazards related to:
  - Emergency shutdown & blowdowns.
  - Shutdown systems & levels.
  - Flare systems.
  - Over pressure relief systems.
  - Plant depressurization.
  - Open & closed drain systems.

- Pipeline systems including pig operations.
- Compressors & wet gas hazards.
- Inflammable & toxic gases.
- Gas flaring & effects of radiation.
- Use of chemicals.
- Compressed air systems.
- Fire & gas detection.
- Alarms & shutdown signals.
- API safe charts.
- Shutdown systems testing.
- Shutdown systems maintenance.

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