



Refining and Petrochemicals Turnaround Planning and Control

MODULE

About the Skill Module

In petroleum refining, turnaround (TA) means a scheduled large-scale maintenance activity where an entire process unit, several of them or the overall refinery are taken off stream for an extended period for comprehensive maintenance and equipment or technology renewal.

Once the TA is completed, it is expected the process unit operates in a safe way until next outage, but also the efficiency and throughput can be improved, and a reduction in routine maintenance costs can be achieved.

TA operation involves months and sometimes years of planning and requires knowledge, skill, and familiarity with the unique systems and operations of the refinery to ensure the duration of TA per the plan and to have a safe and controlled back to operation process (startup and stabilization).

This skill module describes the complex relationships between the team planning the TA and the rest of the refinery organization. The detailed planning process of TA and pre-TA activities are also discussed. Main activities of planning and control during the execution of the TA and once it is accomplished are also discussed.

[See demo online learning module](#)

Target Audience

Process Engineers, Planning and Economics Engineers, Inspection Engineers, HSE Engineers, Maintenance Engineers and Supervisors, Laboratory Managers and Supervisors, Turnaround Planners and Operation Supervisors.

You Will Learn

- **Basic Concepts** (TA Definition, Communication issues, Staff requirements and organization chart, Software implementation, Contracting aspects and constraints, Financial approval levels)
- **Turnaround Planning** (Scope definition, Risk analysis, Execution strategy setup, Timeline definition, critical path definition, Spare parts and materials/chemicals acquisition, Safety aspects, Communication flow chart)
- **Pre-Turnaround Planning** (Scope definition, Execution strategy definition, Timeline definition, Spare parts and materials/chemicals acquisition, Safety aspects, Communication flow chart)

- **Turnaround Execution** (Execution Plan updating, Communication flow during TA, Follow up to activities accomplished and pending, Lock out/Tag Out execution, Pre-Commissioning and commissioning activities, Contractors' demobilization, HSE aspects)
- **Turnaround Close Out** (HSE statistics analysis, Cost analysis, Duration analysis, Lessons Learned, Contractor evaluations/appraisals)

Product Details

Categories: Downstream

Disciplines: Refining

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 5.5 hours (approx.)

\$395.00