

Production Planning and Scheduling in Petroleum Refineries Training

Description

Objectives

- Gain an appreciation of modern planning and scheduling tools that will be useful for planning of crude and product deliveries in their facilities
- Assist in improved operations, optimization, upgrading and modification of existing facilities
- Will result in improved profitability and help in continuous modernization of facilities
- Develop the skills necessary to apply risk assessment techniques

Programme Outline

Application of Planning and Scheduling

- Overview of planning and scheduling in oil refineries
- Refinery Configuration:
- Hydro skimming Refinery
- Refineries with Secondary Conversion Process
- Integrated Refineries
- Existing & New Refineries
- Choice of Crude
- Crude oil scheduling
- Choice of Processes
- Capacity utilization of Crudes
- Severity of Process Operations
- Cut-points Optimization
- Facing Upset Situations
- Tankage Requirement

Improving Product Movements and Releasing Tankages

- Basic Information Required
- Crude Assay

- Intermediate Feed Characteristics
- Yields and Properties
- Different Process Units
- Utilities

Product Blending Rules

- Product Specifications
- New Trends in fuel production
- Environmental Issues
- Crude Cost
- Product Netback

Formulation of Problem

- Refinery Flow-sheets
- Simplified Material Balance
- General Formulation
- Demand Equations

Application to a Refinery Worksheet

- Petroleum Product Movement and Product Exchange
- Marginal Depot Supply and movements
- Commonly Used Methods & Recent Developments
- Mathematical Approach to Solution
- Linear Programming
- Graphic Method
- Vendors Software

