

Training Title

DELAYED COKER PROCESSING

Training Duration

5 days

Training Venue and Dates

RT211	DELAYED COKER PROCESSING	5	08 – 12 March, 2020	\$4,500	Dubai, UAE
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In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- **US\$4,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

For refiners to maximize their profit margins, increasing the value of refinery products derived from the bottom of the crude oil barrel by delayed coking process is essential. This "Delayed Coker Processing" program has been developed to provide an in-depth yet practical review of art and science of the current Delayed Coker process technology. Typical design, operation, control, troubleshooting, process variables, and process optimization are emphasized. The course discusses the normal daily operations of the Delayed Coker unit and the best practices used to monitor normal operations. Through lectures, team works and exercises, participants will be able to troubleshoot common Delayed Coker unit upsets.

This course will feature:

- Lectures/discussions on Delayed Coker process technology, roles and techniques for improving process operations, designs and applying optimization techniques.
- Open discussion on the latest development on the applications of Delayed Coker.
- Actual troubleshooting case studies.
- Group activities (workshop) on process design, operation, maintenance, inspection, control and optimization.

TRAINING OBJECTIVES

Upon completion of this course, participants will be able to:

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- Gain in-depth knowledge of the exact role of Delayed Coker units regarding to feeds and product's characteristics.
- Analyze the importance and impact of operating parameters on the process operations.
- Identify common potential incidents, their origin, consequences on safety, health and the environment.
- Understand process design and operation variables on product quality.
- Apply mass/energy balance for Delayed Coker unit.
- Identify unit-specific problems and describe typical solutions.

WHO SHOULD ATTEND?

This course is intended for anyone who takes part in the Delayed Coker units in oil refineries or who helps decide Delayed Coker investments. The course is suitable to a wide range of professionals but will greatly benefit to:

- Refinery operation managers
- Process Engineers and technologists
- Operation engineers
- Shift team leaders
- Maintenance Engineers
- Plant Engineers
- Inspection engineers
- All professionals involved in refinery process unit operations
- Anyone who wishes to update himself on the methods used in this important field

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 motivate everybody 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

DAILY OUTLINE

DAY 1

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Refining Operations and the Role of Delayed Coker Units

- Refinery Feed stocks and Products
- Crude Assay and Quality
- Heavy Oil Chemistry
- Composition of Heavy Oils
- Refinery Configurations
- Coking Refineries: Role and Economics of Delayed Coker in Modern Refineries
- Development of New Technologies
- Case Study

DAY 2

Delayed Coker Process Fundamentals and Description

- Delayed Coker Flow Scheme
- Process Chemistry
- Coker Feed Systems
- Coker Preheat Options
- Process Variables
- Key Operating Variables
- Key Feedstock Parameters
- Case Study

DAY 3

Description of Delayed Coker Process Equipment

- Coker Preheat Furnace
- Design Strategies
- Decoking Options
- Coker Drum Operations
- Foam Formation / Use of Anti-Foam
- Pressure Relief Systems
- Case Study

DAY 4

Description of Delayed Coker Process Equipment (contd.)

- Decoking Operations
- Blowdown Systems
- Deheading Devices
- Coke Cutting System

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- Coke Dewatering/Cutting Water Systems
- Heatup Condensate Processing Options
- Fractionator and Gas Plant Operations
- Petroleum Coke Quality Issues
- Types of Petroleum Coke
- Case Study

DAY-5

Delayed Coker Operational Guidelines, Troubleshooting and Maintenance

- Feedstock Variations and Contaminants
- Operational Upsets and Troubleshooting of Delayed Cokers
- Optimization of Delayed Coking Systems
- Debottlenecking Options
- Performance Monitoring
- Process Economics
- Root Cause Analysis for Operational Upsets
- Troubleshooting Case Analysis

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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