UOP: Fundamentals – Unicracking Process Implementation - Seminar

Course Overview
Course number: UOP-0013-S
Course length: 4 days

Unicracking™ Process (includes Web-Based Training)**
This course provides an in-depth review of the UOP Unicracking™ Process. The course covers both theory and practical applications, including a detailed look at the design, monitoring and troubleshooting of hydrocracking units. Through lecture and exercises, participants will gain an understanding of the theory behind hydrocracking as well as the knowledge required for safe and efficient unit operation. Best practices and guidelines for evaluating operating data are also covered.

Participants work with unit flow schemes and equipment, discuss the impact of catalyst selection and process variables on unit performance, review operating procedures and the philosophies behind them, and address metallurgy and corrosion issues specific to hydrocracking units. Case studies illustrate real-life UOP Unicracking unit operating situations and provide practice in troubleshooting.

Course Benefits
You will acquire the necessary skills and knowledge to:

- Explain fundamental principles of the hydrocracking process
- Identify the major equipment used in the process flow
- Explain typical operating procedures
- Develop effective troubleshooting techniques
- Describe the importance of catalyst selection
- Determine the effect of changing process variables on unit performance

Who Should Take This Course?
This course is designed for process engineers and operations personnel who operate, support, or maintain a UOP Unicracking unit or supervise those who do.

**Attendance is limited to current UOP license holders using UOP catalyst.

Prerequisite/Skill Requirements
Prerequisite Course (s)
- None

Required Skills and/or Experience
- None

Desirable Skills and/or Experience
- None

Note: This course has a Web-Based Training pre-requisite included that must be completed by the registrant prior to the commencement of the course. Details on how to access and complete the web-based training will be sent to the registrant’s email address a minimum of 30 days prior to the commencement of the course.

Course Topics
You will learn...

- Hydrotreating and hydrocracking chemistry
- Pretreat and hydrocracking catalyst properties and performance criteria
- Process variables and their effects on product yields, product quality, and cycle length
- Unicracking unit flowschemes and equipment
- Reactor and internals design
- Current catalyst slate, graded beds, loading and unloading
- Unicracking unit metallurgy and corrosion issues (including reactor effluent air cooler)

Course Delivery Options
- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

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Course Topics continued

- HPNA management
- Startup, shutdown, and normal operating procedures (including catalyst activation)
- Feed and product analysis
- Emergency procedures (including temperature excursions)

Additional Training

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.honeywellprocess.com/en-US/training.