COURSE DESCRIPTION, BU MEASUREMENT & ANALYTICS

FCCU
Fluidized Catalytic Cracking Unit
Z247e – Web-based training (External version)

Course duration
1.25 hours, depending on personnel knowledge

Course type
This is a web-based training course. The course includes self-study material and self-assessment questions. The language of the course is English.

Course goal
The goal of this course is to enable students to develop an understanding of the role of the FCCU in the overall refinery configuration, its feed, intermediate and product streams and its key unit operations:

- Reactor
- Regenerator
- Fractionation
- Wet Gas Compression
- High Pressure Separation
- Primary & Secondary Absorption
- Stripping
- Stabilization
- Splitting
- Regenerator Flue Gas Heat Recovery
- Slurry & HCGO Pumparound Heat Recovery

Student profile
- Sales/Service engineers
- Product engineers and
- All interested employees inside ABB

Course objectives
Upon completion of this course, students will be able to:

- Describe the process flow
- Name the principal items of equipment
- Describe their function
- Understand their principles of operation
- Recognize their internal components

Additionally, students should be able to demonstrate an awareness of:

- Important process variables and how they're controlled
- Major operating constraints
- Typical operating problems

Course Modules
This course has four modules. Module 01 provides an overview of the FCCU, and Modules 01 - 04 describe each of the unit operations that make up the FCCU:

- Module 01 – Cracking Reactions
- Module 02 – Reactor
- Module 03 – Regenerator
- Module 04 – Fractionator & Gas Plant

Contact
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