COURSE DESCRIPTION, BU MEASUREMENT & ANALYTICS

NHTU & CRU
Naphta Hydrotreating Unit & Catalytic Reforming Unit
Z244e – Web-based training (External version)

Course duration
1.5 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 NHTU & CRU in the overall refinery configuration, its feed, intermediate and product streams and its key unit operations:

- NHTU Feed System
- NHTU Makeup Gas Compression
- NHTU Heater
- NHTU Reactor
- NHTU Separation
- NHTU Recycle Gas Compression
- NHTU Stripping
- CRU Heaters
- CRU Reactors
- CRU Regenerator
- CRU Separation
- CRU Recycle Gas & Net Gas Compression
- CRU Stabilization (& Reformate Splitting)

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 five modules. Module 01 provides an overview of the NHTU & CRU, and Modules 01 - 05 describe each of the unit operations that make up the NHTU & CRU:

- Module 01 – NHTU Feed & Makeup Gas
- Module 02 – NHTU Heater & Reactor
- Module 03 – NHTU Separation & Compression
- Module 04 – CRU Heaters, Reactors & Regenerator
- Module 05 – CRU Separator, Compressors & Stabilizer

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