

DCU

Delayed Coking Unit

Z248e – Web-based training (External version)

Course duration

0.75 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 DCU in the overall refinery configuration, its feed, intermediate and product streams and its key unit operations:

- Coking Heater
- Coke Drums, Calcining & Handling
- Fractionation
- Compressor
- Separation
- Primary & Secondary Absorption
- Stripping
- Stabilization
- 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 two modules. Module 01 provides an overview of the DCU, and Modules 01 - 02 describe each of the unit operations that make up the DCU:

- Module 01 – Overview, Feed Preheat, Coker
- Heater & Coke Drums
- Module 02 – Main Fractionator & Gas Plant