

Becht Training for Refinery Process Engineers



Early Career Foundations

Typically First 1-2 years



- **Soft Skills**
 - Technical Communications
 - Technical Writing Basics
- **Introduction to Refining**
 - Introduction to Petroleum Refining Processing
 - Process Technology Fundamentals*
- **Separation**
 - Crude Oil Desalting
 - Crude Oil Distillation
- **Treating & Utilities**
 - Amine Treating and Sour Water Stripping Technology
 - Sulfur Recovery, Tail Gas Treatment & Incineration
 - Industrial Water Treatment: From Intake to Outfall
- **Safety & Risk**
 - Management of Change (MOC)
- **Process Control**
 - Introduction to Process Control for Engineers

All courses shown in this pathway are delivered by Becht's experts, providing engineers with structured, career-long development.

These stages are suggested progressions. Learners may enter at the point that best matches their role and background.

Access our Public Schedule & all Private Trainings:
<https://becht.com/training/>

Core Process Skills

Typically 1-5 years of experience



- **Conversion**
 - Catalytic Reforming/Catalyst Regeneration
 - Delayed Coking Process Technology
 - FCC Process Technology
 - Flexicoker/Flexsorb Process Technology
 - Hydrotreating & Hydrocracking Process Technology
 - HF and Sulfuric Alkylation
 - Steam Cracking & Olefin Technology
 - Visbreaking
- **Utilities & Support Systems**
 - Ammonia Plants Best Practice Operation and Process Control
- **Equipment**
 - Refinery Troubleshooting
 - Refinery Distillation: Operation and Troubleshooting
 - Fired Heaters / Combustion Technology
- **Specialized Areas**
 - Sustainable Aviation Fuel
- **Analysis & Problem-Solving**
 - Root Cause Analysis Training Workshop
- **Turnaround**
 - Turnaround Training for Process Engineers
- **Refinery Performance & Economics**
 - Refinery Economics & Margin Improvements

Leadership, Project & Operational Excellence Skills



- **Project & Risk Management Skills**
 - Project Management for Capital Projects
 - Construction Management for the Project Professional
 - Project Controls for Capital Projects
 - Project Management for Brownfield Projects
 - Risk Management for Capital Projects
- **Leadership Skills**
 - Frontline Leadership Fundamentals
- **Technical Design**
 - Process Design Fundamentals
 - PRV and Flare Design
- **Safety & Risk**
 - Process Safety

Advanced & Specialized Skills



- **Advanced Process Technology**
 - FCCU Optimization and Troubleshooting
- **Refinery Performance & Economics**
 - Refinery & Petrochemical Hydrocarbon Loss Management
 - Asphalt/Bitumen Refining Value Chain Essentials

* Offered as Private Training only to expand on the Introduction to Petroleum Refining course.