

COKER PROCESS TRAINING

Galveston, TX USA Mar. 27 • Rio de Janeiro, Brazil Aug. 3 • Calgary, Alberta Sep. 14.

Session 1 – Heavy Oil Processing Overview

- Process History
- Refinery Integration
- Alternative Heavy Oil Processing
- Feedstock Chemistry
- Cracking Fundamentals
- Process Overview
- Cyclic Operations
- Common Problem Areas
- Basic Upgrading Economics

Session 2 – Delayed Coking Operations Flow

- Unit Feed Storage Tanks, Preheat, and Furnace Charge
- Heater Operations and Aging
- Online Drum Operations, Drum Switching
- Fractionator
- Blowdown Operations
- Decoking
- Types of Coke, Alternative Feedstocks
- Equipment Reliability Considerations



Small group hands-on exercises at the training class

As crude oils get heavier, refiners are looking for ways to increase the yield from the bottom of the barrel. They are turning to delayed coking and upgrading. This training covers process fundamentals and mechanical systems used in the operation of a delayed coker. The course is for those who are new to the design, process engineering, operations and maintenance of a delayed coker unit.

Instructors

Evan Hyde consults on processing improvement and reliability initiatives for coking clients around the world. He participated in onsite peer assessments of Coker Units at five refineries which included improvements in maintenance work practices, process enhancements, and turn-around scope optimization.



Evan works for C2 NanoTechnology and formerly for Becht Engineering and Exxon-Mobil Research and Engineering, as a process engineer, with assignments in research, and troubleshooting for heavy oil upgrading equipment. He holds a B.S. of Chemical Engineering from Pennsylvania State University.

Gary Pitman's roots are in Wyoming's wildcat gas well drilling. He brought that drilling background into the delayed coker as an operator, then moved on to maintenance and turn-around planning at ARCO/BP refineries. In 1998 he co-founded Coking.com with Paul Orlovski to promote Safety and Reliability in the coker.



Gary commissioned the Hovensa Coker in the Virgin Islands doing training then supervising their maintenance staff of 185. He has done Coker Site Safety Audits in Asia, Europe, South America and North America and currently is the subject matter expert for new product development with two major manufacturers of delayed coking equipment. With his vast experience working with coker people close to the iron, Mr. Coking.com is in high demand for consulting on unheading, drilling, operations, design and training.

The coker history was interesting. Not something you typically hear on the job. The process section was very well explained -- good amount of detail. I really enjoyed the class. Kari Howard, ConocoPhillips

Very good course for the first time. It will get better. I thoroughly enjoyed it and will send some of our field service people. Jack Rodgers, Ohmart/Vega

Overall very informative and informational. The presenter was very knowledgeable in coking! Don Mannino, Valero

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