

COKER OPERATIONS OVERVIEW TRAINING

Calgary, Canada September 13, 2010 • Galveston, Texas April 11, 2011

Unit 1 – Heavy Oil Processing

- Process History
- Refinery Integration
- Alternative Heavy Oil Processing
- Feedstock Chemistry and Cracking Fundamentals
- Coke Morphology
- Process Overview
- Cyclic Operations
- Basic Upgrading Economics

Unit 3 – Facilities Design & Operator Rounds

- Human Factors in Design
- Site Audit Findings
- Common Operator Round Experiences
- Small Tips to Improve Your Coker

Unit 2 – Specialized Equipment

- Unit Feed Systems
- Fractionation
- Furnace Design and Aging
- Blowdown Operations
- Drum Operations
- Deheading Systems
- Decoking Equipment
- Coke Handling Equipment

Unit 4 – Safety Events & Emerging Technologies

- Recent process developments
- New vendor technology
- Emerging OSHA/EPA regulations
- Delayed Coker Accident History

Early registration until August 6 \$500, Regular-\$600



Small group hands-on exercises at the training class

Instructors

Evan Hyde is currently president of C2 Nano Technology where they are developing new surface treatments to combat fouling and corrosion issues in cokers and other petrochemical process units. He was a Senior Engineering Advisor for Becht Engineering Co., Inc. New Jersey. He has consulted on processing improvement and reliability initiatives for coking clients around the world. He also participated in onsite peer assessments of Coker Units at eight refineries which included improvements in maintenance work practices, process enhancements, and turnaround scope optimization.



Prior to joining Becht, Evan worked for ExxonMobil 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 worked in the delayed coker as an operator, then moved on to maintenance and turnaround planning at ARCO/BP refineries. In 1998 he co-founded Coking.com with Paul Orlowski 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 for 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, training and commissioning with his start-up team.

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

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, **Coking.com**[®] operations and maintenance of a delayed coker unit.

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