Course Description

The course covers reliability program relative to operator involvements in the reliability improvements. concepts, design and analysis methods, and test and evaluation approaches.

The course will highlight what a Process Operator should understand relative to how equipment should be operated and be able to recognize report and/or promptly correct reliability defects, deviations, abnormalities and pending failures, before these grow into a more significant reliability issue.

The course will outline operator involvement in effective condition monitoring and surveillance (using Operator Structured Rounds, visual cues and troubleshooting skills, and monitoring of Operating Envelopes), and execution of defined tasks.

The course will demonstrate by hands on examples effective follow-up by operator means for deviation/deficiency correction, or others are informed of the findings (i.e., entered in shift log, deviation report or entered in work order system).

Example of deviations/deficiencies will include those observable by both Field Operators (both Operating Envelope compliance and physical condition monitoring) and Console Operators (Operating Envelope compliance).

Course will cover Operator Care activities;
- Observation/Surveillance
- Operating within defined Operating Envelopes
- Performing defined tasks
- Troubleshooting
- Actions to improve reliability

Who Should Take the Course

Engineers who need to know the basics of operator involvement in reliability improvements as they apply to developing and fielding operator action list and activities. Design engineers, operations, maintenance, technical reliability specialists, and product/program managers will benefit from the course.

What Will You Learn

The participant will gain knowledge of the importance of operator reliability activities to system and product success. They will understand the operation practices that are appropriate to apply for different development situations as well as the basics of implementing the practices cost effectively.

Included Materials

Guidelines for Checklist Development
Structured Rounds Best Practices
Guidelines for Job Design Analysis
Guidelines for Visual Monitoring

Course Outline
• Operating Envelopes
• Surveillance of Critical Parameters
• Checklist Development and Implementation

• Job Design Analysis
• Operator Pump Reliability Improvements

• Visual Monitoring
• Data Collection
• Data Analysis
• Shift Turnover
• Operator Driven Loss Control
• Operator Compressor Reliability Improvements

Course Instructor: Namik Kosaric is a Canadian Professional Engineer with experience with PETRONAS, Bahrain Petroleum Company and ESSO Petroleum Canada in reliability improvements and maintenance cost reduction, mechanical design, project engineering and technical support of Oil Refineries and Oil Production Facilities.

For the last 8 years in PETRONAS Namik Kosaric was responsible for providing technical and knowledge leadership in development, coordination and implementation of plant reliability and integrity improvements and program to PETRONAS OPU’s to improve and support the overall Petronas Nasional Berhad objectives.

In BAPCO, Namik Kosaric, pioneered and implemented a root cause failure analysis of lost profit opportunities and chronic failures using a multi-disciplinary teams to improve plant reliability, availability, safety and to ultimately reduce operating costs. Significant cost savings were achieved as a result of over 200 completed investigations.

For 23 years in ESSO Petroleum Canada, Namik Kosaric has made significant contribution worldwide in reliability improvements, design, projects and maintenance cost reduction in upstream and downstream facilities.