

## **WORKSHOP OUTLINE**

### **Introduction**

Skill Diagnostics Test

### **Module 1: Understanding Process Performance**

This module will provide a review of basic process control, including the function of PID controllers. It will also examine how elements are combined in complex arrangements for unit control. In addition, it will provide an understanding of how to evaluate the ability of a process to perform with the limits that constitute an operating envelope.

Lesson 1 – Review of Process Control Basics

Lesson 2 – Principles of Complex Control

Lesson 3 – Evaluating Process Capability

### **Module 2: Alarm System Performance**

This module will introduce principles of alarm system performance, including how alarms are defined and managed. It will also examine human factors to consider in evaluating alarm systems.

Lesson 1 – Alarm Selection

Lesson 2 – Alarm Re-Validation

Lesson 3 – Auditing Alarm Performance

### **Module 3: Effective Process Monitoring**

This module will examine process monitoring skills and practices at a level appropriate to an advanced process control operator. It will include considerations of individual differences in effective monitoring. It will also examine unit leadership skills in applying situational awareness and managing crew interactions.

Lesson 1 – Process Observation Skills

Lesson 2 – Applied Situational Awareness

Lesson 3 – Managing Console/Field Interactions

### **Module 4: Managing the Operating Envelope**

This module will address skills necessary for process control operators to participate effectively in a program of operating envelope management. It will consider practical approaches to evaluating potential process changes and the problems they may introduce.

Lesson 1 – Evaluating Process Change

Lesson 2 – Potential Problem Analysis

Lesson 3 – Process Problem Resolution

## **Module 5: Advanced Abnormal Situation Management**

This module will provide a discussion of abnormal situation management appropriate to advanced process control operators. Case studies will be used for practice analysis.

Lesson 1 – Managing Process Deviations

Lesson 2 – Situational Analysis

Lesson 3 – Understanding Plant Incidents

### **Closing**

Skill Verification Test