Common Course Numbering System

Searching Current Courses For Summer 2015

Course: PRO 240
Title: Industrial Troubleshooting
Long Title: Industrial Troubleshooting
Course Description: Provides instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems. Topics include application of data collection and analysis, cause-effect relationships, and reasoning.

Min Credit: 4
Max Credit:

Status Notes: New course entered 9/30/05 s@
Origin Notes: RRCC
Course Notes: Title change entered 9/23/11 LK

STANDARD COMPETENCIES:

1. Explain steps in troubleshooting models
2. Demonstrate use of troubleshooting tools
3. Apply troubleshooting techniques to process problems
4. Apply knowledge of process variables, indicators and controls, troubleshooting tools, and troubleshooting steps to solve problems in a simple process system
5. Apply the troubleshooting steps and tools to solve problems in a decanter process, reaction process, steam generation process, distillation process, and an absorption and stripping process.

TOPICAL OUTLINE:

I. Method and Tools
II. Simple Separator System
III. Reaction System
IV. Steam Generation System
V. Distillation System
VI. Absorption and Stripping System
VII. Processes and Systems
VIII. Organizational Learning
IX. Variance and Operating Consistency
X.  Continuous Improvement and Corrective/ Preventive Action

XI.  Group Problem Solving

XII.  Statistical Thinking and SPC Basics

XIII.  Data Collection and Control Charts
    a.  Control Charts
    b.  Data Representation
    c.  Analysis and Interpretation

XIV.  Process Capability

RELEASE: 8.5.3

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