



Idaho Operations Office
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COURSE DESCRIPTION

- Course Title:** DOE Operational Configuration Management
- Course Length:** Sixteen hours
- Course Limit:** 30 students
- Intended Audience:** DOE and contractor personnel who are involved with the implementation processes of Configuration Management (CM) as described in the DOE Operational Configuration Management Standard, DOE-STD-1073-93.
- Course Description:** The DOE Operational Configuration Management Standard course provides the students with the interpretation of the guidelines in DOE-STD-1073-93. Significant emphasis is placed on understanding the contents and intent of this standard, specifically the element of Change Control. Students will be able to describe program principles, including program objective, functional model, program criteria, and graded approach. A key person involved in the development of DOE-STD-1073-93 is the lead instructor.
- Supporting Material:** DOE Operational Configuration Management Standard Student Workbook (provided in class)
- Evaluation:** Subjective, based upon student's active participation
- Prerequisites:** Familiarity with DOE-STD-1073-93
- Cost:** Estimate available upon request
- Attachments:** Course outline
- Point of Contact:** Bill Lapsansky
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Epsilon Systems Solutions, Inc.

COURSE OUTLINE

Course Title: DOE Operational Configuration Management

Outline:

1. Why Configuration Management

- a. Staff/Student Introductions
- b. Course Overview/Agenda
- c. Course Purpose
- d. Benefits
- e. Costs of NOT having CM

2. Introduction to Configuration Management

- a. Program objective
- b. Basic CM relationships
- c. Elements/Functions
- d. Overview of each element
- e. Structure of DOE STD 1073 93

3. Change Control

- a. Functions
- b. Types of changes
- c. Sources of change
- d. Identification of changes
- e. Reviews Technical, Design Envelope, Management
- f. Implementation of changes
- g. Documentation of changes

4. SSC Requirements

- a. Functions
- b. Design process
- c. Requirements vs. basis
- d. Design controls
- e. Design and construction turnover
- f. Types of requirements Types of requirements
- g. SSC grades

5. Document Control

- a. Functions
- b. Scope
- c. Types of documents
- d. Tracking
- e. Retrieval

6. Program Management

- a. Functions
- b. Planning
- c. Scope
- d. Contents
- e. Interfaces (Program and organizational)

7. Interfacing DOE Programs and Requirements

- a. Existing programs
- b. Facility life cycle phases

8. Graded Approach

- a. Definition
- b. Other documents
- c. General considerations
- d. Grading factors
- e. SSC grading
- f. Process flowchart
- g. Facility specifics (type, characteristics, lifetime, status, programmatic and technical issues, existing programs and procedures)
- h. Phased implementation

9. Assessments

- a. Functions
- b. Assessment types
- c. Vertical slice
- d. Horizontal slice
- e. Walkdown guidance

Optional

10. Design Reconstitution (DR) Adjunct

- a. Functions/Benefits
- b. Program interfaces
- c. Implementation & Planning
- d. Identification and retrieval of information
- e. Evaluation, verification, and validation
- f. Discrepancy resolution
- g. Regeneration of missing critical information
- h. Design Basis Document program

11. Material Condition and Aging Management (MCA) Adjunct

- a. Functions
- b. Implementation process
- c. Preliminary phase
- d. Detailed phase
- e. Ongoing phase
- f. Life extension