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Continuing Training - Determining The Underlying Drivers of Equipment Failures

This continuing training class will focus on the skills and knowledge of conducting causal evaluations to ensure proper consideration has been given to equipment failures and the associated Extent of Condition; thereby determining whether other systems, equipment, programs, or conditions could be affected.

Benefits:

- Improved organizational performance by providing staff with the tools and practices associated with analyzing equipment failures and the Extent of Condition; thereby minimizing or preventing recurrence of the same or similar event.
- Improved organizational performance by enhancing the ability of the organization to learn from consequential equipment failures.

Who Should Attend:

- Qualified or previously qualified Cause Evaluators or Root Cause Evaluators
- Corrective Action Program leaders and staff
- Personnel who are tasked with solving important equipment, human performance, and organizational issues
- Leaders and staff who develop, implement, mentor, or provide oversight for continuous learning and performance improvement programs
- Quality Assurance Personnel

Class Description:

This course – reviews the basic overall process of a cause evaluation and explains the key concepts associated with analyzing equipment failures and the Extent of Condition. The course consists of instruction and practical exercises.



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Basic Cause Analysis Process Flow – includes a review of the basic steps and process flow of an evaluation from determining the problem statement through developing corrective actions. This review will include the basic principles behind the problem statement (object/defect/consequence). In addition, the direct cause of the event will be discussed. Specific emphasis is placed on the Extent of Condition and how it applies in the overall evaluation process.

Determining Extent of Condition and the associated regulatory requirements for equipment issues –The Extent of Condition will be identified based on the problem statement and direct cause of an event. The process for determining an Extent of Condition will be discussed using a same/similar methodology. In addition, NRC regulatory requirements will be reviewed regarding Extent of Condition for safety related structures/systems/components.

Group Exercise – a group exercise will be conducted to determine the Extent of Condition for an event.

Basic principles behind the Equipment Failure Analysis (EFA) Form – an Equipment Failure Analysis form will be reviewed. This review will include a discussion of the form's questions and a discussion on the basic principles behind the Detect/Prevent/Correct model.

Basic principles behind the Organizational and Programmatic (O&P) Form – an Organization and Programmatic (O&P) evaluation form will be reviewed. This review will include a discussion of the form's questions and a discussion on how an organization can have an impact on equipment failures at the facility.

Case Study – a case study review of a root cause analysis equipment failure will be performed with the class.