



Course Description

Operational Safety/Accident Analyst



Objective

Provide participants with a working knowledge of proven analytical techniques used to improve performance, reduce the frequency and severity of occurrences, and investigate accidents. Using lectures, discussions, case studies, and dynamic learning activities the course explores how individual behavior, leader behavior, and organizational processes and values affect safety, quality, and productivity. The purpose of this course is to train participants to understand human performance principles and several analytical techniques to both proactively and reactively address conditions which caused or can prevent serious events. These techniques can be used when overseeing or assessing organizations/facilities/activities and when investigating near-misses, events, or accidents. Additionally, the course will address how to document these techniques and the results of the analyses.

Description

The program is planned in modules over a five-day period. The training will include class discussions and exercises, and group breakout sessions for case studies and other activities.

The optimal class size is 16 - 20 (max).

Target Audience

The course can accommodate a broad spectrum of participants from various organizational levels and technical specialties. Participants may have varying degrees of experience within DOE. The training is intended for those who assess or oversee facilities and activities, and involved in event investigations. Additionally, the course provides the skills required to perform as the Analyst for an Accident Investigation Board.

Module 1

Introduction to Analysis & Human Performance Principles

Module 2

Error Precursor Analysis

Module 3

Barrier Analysis

Module 4

Change Analysis

Module 5

Events & Causal Analysis

Module 6

Latent Organizational Weakness & Root Causes

Module 7

Other Analytical Techniques

Module 8

Conclusions & Judgments-of-Need

Module 9

Verification Analysis

Module 10

Course Summary