

Root Cause Analysis using Tripod Beta Method

DAY 1

Accident / Incident Investigation and Tripod Beta Principles

- Risk Management of Human Systems
- Organization's defenses between a source of harm and an undesirable outcome as a series of barriers, represented by layers of Swiss cheese
- What is Sequentially Timed Event Plotting (STEP)?
- Rules for Constructing a STEP
- The Four Key Stages in a Tripod Beta Investigation
- Defining Event, Agent and Object
- Telling the Story through the Core Diagram

DAY 2

Barriers, Preconditions and Underlying Causes and Basic Risk Factors

- Barrier Identification and How they are associated with an Incident in a Systematic and Thorough Manner
- Four Possible States of a Barrier and their use within a Tripod Beta Tree
- Human Errors and their Link to the Immediate Causes
- Preconditions to Immediate Causes, Definition and Position within a Tripod Beta Tree
- Underlying Causes, Definition and Position within a Tripod Beta Tree
- Causation Path, Definition and Presentation within a Tripod Beta Tree
- Basic Risk Factors in Business Process

DAY 3

Remedial Actions, Reporting, Tree Logic and Test

- Identify the Nodes on a Tripod Beta Tree where remedial action should be applied
- Haddon's Hierarchy of Barrier Effectiveness
- The Cost vs. Benefit of various types of Barriers
- Report Layout and Format
- The Ways in which Lessons Learnt may be communicated throughout the Company
- Test

