

# Root Cause Analysis

## Course #1004

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### Course Details

**Length:** 1 day

**Prerequisite:** Meridium - User

**Benefits:** This course will teach you the necessary skills to use the PROACT® for Meridium tools to identify the root causes of failure.

**Audience:** General Users, Implementers, Administrators



### Overview

#### Creating a Root Cause Analysis

You will create a Root Cause Analysis. You will add team members, assign responsibilities, and build a logic tree to define and analyze the possible causes of failure.

#### Documenting Analysis Outcomes

You will document the outcome of your findings and link external files to the analysis, such as photographs or drawings.

#### Communicating Analysis Results

After your team has completed the analysis, you will summarize and communicate findings and solutions to the decision makers in your organization.

#### Querying Analysis Information

For reporting and evaluation purposes, you will query analysis information and generate reports and graphs based on the results.

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### Training Agenda

#### Root Cause Analysis Overview

- The PROACT® methodology
- Accessing Meridium Root Cause Analysis

#### Creating a Root Cause Analysis

- Using the analysis wizard
- Defining Equipment or Locations
- Adding Team Members and a Team Charter
- Adding Critical Success Factors

#### Preserving Failure Data

- Determining what information is needed
- Assigning team member responsibility
- Linking external documents to the analysis

#### Ordering the Analysis

- Modifying the team charter or adding new Team Members or Critical Success Factors

#### Analyzing the Data

- Constructing the Event diagram
- Identifying Failure Modes
- Defining Hypotheses
- Determining verification methods for Hypotheses and assigning responsible team members
- Viewing and printing verification logs
- Modifying Hypotheses to include outcomes and confidence factors
- Linking external documents to Hypotheses
- Evaluating Hypotheses to reject or assign causes

#### Communicating and Tracking Analysis Results

- Communicating Analysis Findings
- Adding Recommendations based on Findings

#### Publishing the Analysis

- Publishing the analysis
- Re-using published analysis information

#### Ongoing Administration

- Launching pre-defined reports, such as a Summary Report or Verification Report
- Exporting, printing, or e-mailing reports

#### Querying the Results

- Building ad-hoc queries based on analysis data

#### Lab

The class will be divided into groups and presented with a reliability problem. Each group will work together to solve the problem, using the PROACT® for Meridium tools.