

ROOT CAUSE ANALYSIS

One-day workshop

1. Introduction

The resolution of many process problems lies not in the development of a fix based on the symptoms of the problem, but in drilling down through to find the root causes of the problem and correcting or error proofing the root cause. This workshop introduces a number of team based non-statistical root cause tools, and some statistical tools, that enable teams and individuals to identify the root cause of process problems.

2. Learning Objective

At the end of this workshop candidates will

- Be enabled to use a variety of non-statistical tools appropriate for individual and team-based root cause analysis;
- Understand how to map a process and establish an associated data sampling plan;
- Be enabled to interrogate the data using statistical tools to establish patterns and correlation between variables;
- Understand when and where to use each tool.

The workshop is case study based and, to enhance student learning, actual organisation process problems (if available) will be used in the workshop.

3. Agenda

Time	Item	Format
08:30	Introduction to root cause analysis The 5 whys Cause and effects analysis Fault tree analysis Process mapping and data sampling strategies	PowerPoint presentation Examples Group exercise Group exercise Group exercise
12.30	Lunch	
13.30	Multi vari analysis based on data sampling Correlation and regression Case study review	Minitab exercise Minitab exercise Group discussion/exercise
16:30	Review & close	

4. Who should attend?

The root cause analysis workshop is appropriate for a wide audience including engineers, managers, team leads and laboratory analysts. It works most effectively when paired with the Lean Ireland Error Proofing workshop. Ideally, they are run two to three weeks apart.

Contact

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