Manufacturing Technology Training
An IMTMA initiative

Certified Root Cause Analyst
Date : 23, 24, 25 & 30 November 2021
Time : 0910 Hrs to 1340 Hrs (Online Mode)

INTRODUCTION

Fundamental to any continuous improvement program is the ability to determine the root cause of an effect. Root cause is the fundamental, underlying reason for a problem. The approach should be **“Don’t put a bandage on a problem; fix the issue permanently”**.

Root cause analysis involves - deploying methodologies to understand the root cause(s) of a problem and verify the same. 8D and A3 problem-solving are universally deployed approaches, that are structured to identify and verify the root cause in a scientific manner.

This course will enable participants to understand root cause analysis as a procedure for ascertaining and analyzing the causes of problems in an effort to determine what can be done to solve or prevent them occurring again. RCA potentially leads to saving of time, money, and resources.

Keeping this in view, IMTMA is organizing an Online program on **“Certified Root Cause Analyst**” . This course is designed to provide participants with an in-depth understanding of how to analyze a system to identify the root causes of problems thro **“Learning By Doing”** methodology.

Special Offer: Participants will be provided FREE ACCESS to IMTMA E'learning course on "Failure Mode & Effects Analysis (FMEA)" towards continual learning and up skilling. Access will be valid from 23 Nov to 02 Dec 2021.

FOCUS AREAS

- Understand the basics of problem-solving.
- What is Root Cause Analysis?
- Tools/Techniques used in problem solving approach
- Concept of Y=f(x).
- Sources and types of variation

8D problem solving methodology using a case study

D0 – Implement ERA (Emergency Response Action)

- Prepare for 8D
- 8D Process Flow

D1 – Establish the Team

- Select the Team
- Map the stakeholders
- Framework for Success of the Team

D2 – Define the Problem

- Tips to write a Problem Statements
- Is/Is not Analysis
- Process Mapping

D3 – Develop Interim Containment Action

- Process of making a containment plan
- Containment Actions

D4 – Root Cause Analysis

- Techniques to identify the root cause analysis (Brainstorming, seven QC tools)
- Validate the Root cause (Techniques)

D5 – Identify Permanent Containment Action

- Error Proofing
- Selecting the Solution

D6 – Implement Permanent Containment Action

- Develop Corrective action
- Obtain stakeholder approval on PCA

D7 – Define and Plan Preventative Action

- Use an FMEA – Risk Assessment
- Control plans

D8 – Congratulate the team

- Appreciating team members

A3 problem-solving methodology using a case study

- Describe the objectives of A3 problem solving report
- Characteristics of A3 Problem Solving
- Explain the A3 problem solving process
- Provide a deeper insight into various sections of A3 problem solving report and the application of key tools to complete those sections like
  - Forming a Problem Statement
  - Seven QC tools for Analysis
  - Stakeholder Management before implementing Countermeasures
  - SMART goals
  - Solution Selection
- Know the key points to consider and exit gate questions before completion of each section of A3 problem solving report
- Using a case study, complete an A3 problem solving report

KEY TAKE AWAYS

At the end of this program, the participants shall be able to:

- Enhance problem-solving effectiveness by providing a model for in-depth analysis of problem situations.
- Apply the concept of Y=f(x).
- Know Tool kit required to complete an A3/8D problem solving report.
- Apply A3/8D problem-solving on the shop floor.
- Propagate systematic way of problem solving
- You will have the necessary skills required to become an adept A3/8D practitioner, prepared to lead and facilitate effective problem-solving activities and teams.

FEE PER PARTICIPANT (PER LOGIN)

Rs. 10000/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 400/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 15% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

This course is targeted for people from, engineering personal, production personnel, entry-level graduates and those who would like to enter into the field of Operational Excellence. It will also benefit managers and quality supervisors from machine tool, automobile and auto ancillaries, toolrooms, aerospace and general engineering.

FACULTY

This program will be delivered by ***Mr Anand Deshpande***

Mr Anand Deshpande is an experienced Operational excellence professional and Six Sigma Black Belt with over 30 years of experience, including 14 years of global experience in Lean management and 11 years of consulting experience.

For the last 10 years, he has been a Consultant catering to effectuating use of process enhancement and quality improvement tools such as Skill Matrix, Value Stream mapping, Capacity planning, Best practice replication, Synchronous material flow, Kanban, JIT, Zero defects, Error proofing, FMEA, 8D problem solving, Six sigma green belt and yellow belt preparation training, OEE and implementation of performance management systems.

His executive career spans across several countries with long stints at GBS Engineering, Dell International Services, Ford Motor Co - England & Germany, Philips India and Nigeria.

He holds a degree in Production engineering and an MBA from HULT International business school. He is passionate in implementing Lean and authored the book ‘Making Apparel Manufacturing Lean’.

For Registration Contact

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REGISTRATION : Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.