

## COURSE DESCRIPTION:

# Root Cause Analysis



Which approach is more reliable: a doctor that routinely uses a thermometer and prescribes aspirin to a patient with repeat fevers, or a doctor that uses a combination of diagnostic techniques to uncover the true cause of a patient's fever?

Like a clinical diagnosis, effective root cause failure analysis requires correct application of the right tools to make accurate conclusions.

In this three-day class, you will practice selecting and applying the best of seven different root cause analysis (RCA) tools. During the class, you will begin developing an RCA process to fit your environment. You will leave equipped to look beyond failure symptoms and find ways to avoid future problems.

### Learn How to:

#### Investigate the RCA methods

- Discuss the various RCA philosophies and methodologies
- Discuss the importance of a true RCA process
- Define configuration management and how it affects RCA
- Discuss why multiple solutions are important

#### Develop your RCA program

- Develop a systematic way to define and analyze a problem while determining and implementing solutions
- Outline triggers for the RCA effort based on business case thinking
- Identify roles, goals and responsibilities within your organization
- Create a "Straw Man Template" RCA process for your facility

#### Prepare to implement the RCA process

- Recognize the importance of the Change Management component in your RCA implementation
- Learn the use of the Root Cause of Success (RCS) process to eliminate common implementation issues
- Choose proper corrective actions and follow-up processes for various situations
- Practice the use of proper documentation, including incident reporting and the A3 process

#### Discuss the advantages and disadvantages and know when to apply PdM technologies

#### Manage and be able to effectively use 7 RCA tools

- Event and Causal Analysis
- Change Analysis
- Fault-Tree
- Sequence-of-Events
- SFMEA
- 5-Why
- Cause and Effect

### What Our Students Are Saying:

*"Excellent training. I will recommend this course to other plants and corporate."*

*- Anthony Nick Martinez, Temple Inland*

*"Everything was great. Course content was clear and easy to understand. Instructor is very knowledgeable about RCA and related subject matter and willing to assist in any way possible to inform and educate."*

*- Brad Cary, Sealed Air Corporation*

### Who Should Attend:

Anyone interested in acquiring or improving advanced problem solving skills will benefit from this course. Individuals responsible for solving maintenance and reliability problems and preventing future occurrences of equipment and system failures, including: technicians, engineers, supervisors and managers.

### Course Information:

Each course includes a comprehensive active learning manual, morning and afternoon refreshments, lunch, and the use of a fully equipped e-business center. Classes are held on Tuesday through Thursday. All students completing a class at the Life Cycle Institute will receive a certificate of completion awarding 2.1 CEU's.

**Location:** 4360 Corporate Road, Charleston, SC 29405

### Life Cycle Institute:

Life Cycle Institute is a recognized and respected leader in Learning, Leadership and Change Management solutions. Be prepared to be an active learner. When you invest in training with the Life Cycle Institute, you will gain knowledge and learn skills that you will be able to apply immediately. Our courses are designed to teach by doing. Your training with the Life Cycle Institute is different because we offer:

- Facilitators who practice what they teach and teach what they practice
- Course content that is constantly updated with the latest proven tools and methods
- Adult learning methods that minimize lecture and emphasize learning by doing
- Classrooms that are specifically designed to facilitate learning

### Registration:

**Download our class schedule** for the latest class dates and course costs or contact the Life Cycle Institute at: 800-556-9589 • education@LCE.com • www.LCE.com

### Private Classes:

Your training needs are unique. Unique needs may require customized, on-site training. Learn from practicing reliability professionals – on your site – at a time convenient for you – tailored for your environment. For more information please contact education at: 800-556-9589 • education@LCE.com • www.LCE.com