

## COURSE DESCRIPTION:

# Reliability Engineering Excellence



The Reliability Engineer (RE) is the business advisor to facility maintenance and production. In this role, the RE mitigates the risks associated with managing assets by encouraging interdepartmental partnerships focused on the goal of reliable production. This strategic position is responsible for evaluating and predicting performance to achieve the greatest asset utilization at the lowest total cost of ownership. The RE sees all aspects of proper plant function, puts equipment first, and makes decisions based on how machines function and their impact on production. Just as a business advisor must balance policy and diplomacy, the RE must be dedicated to preserving asset reliability and managing risk.

In this 3-day course, you will learn what it means to be a Reliability Engineer, how to build and sustain a strategic Reliability Engineering program, and how to gain support from other departments to achieve your facility's reliability goals.

### Learn How to:

#### Examine the Reliability Engineer role

- Review reliability-based asset management philosophy
- Describe the role and responsibilities of a Reliability Engineer

#### Define the essential components of a successful reliability program

- Physical asset management
- Reliability metrics

#### Investigate reliability tools and problem-solving methods

- Practice different problem-solving techniques
- Use different reliability models to analyze data for reliability
- Discuss Failure Reporting, Analysis and Corrective Action System (FRACAS)
- Recognize the fundamentals of risk assessment and risk management

#### Discuss ways to optimize your reliability program

- Cite elements of designing for reliability
- Discuss PM optimization
- Discuss 5 PdM technologies and their application

### Who Should Attend:

Reliability Engineering Excellence is for those involved in improving asset/capacity reliability and predictive maintenance programs. Anyone responsible for decreasing repetitive failures, including Reliability Engineers, Maintenance Managers, Reliability Technicians, Plant Managers, Operations Managers, Production Managers and Reliability personnel.

### 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](mailto:education@LCE.com) • [www.LCE.com](http://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](mailto:education@LCE.com) • [www.LCE.com](http://www.LCE.com)