COURSE DESCRIPTION:

Reliability Excellence for Managers

LIFE CYCLE INSTITUTE

Advance your career and improve your organization's performance by leading a transformational change around reliability and asset management.

In industrial environments, smart machines and technology are enabling a new level of performance optimization with real potential to reach new levels of business value. However, to improve the performance of any operation, you have to build a culture that enables the people, processes and technology to achieve these results.

Smart operations start with "smart culture." Organizations that recognize the value of a smart culture are seeking leaders to help them achieve it. Reliability Excellence for Managers (RxM) prepares you to be that leader.

Many Fortune 500 companies have adopted LCE's Reliability Excellence® approach for reliability and asset management. Over the past decade, thousands of people from hundreds of organizations have completed RxM.

CLIENT	RESULTS	ROI
Pharma Products	Increased capacity 15% Reduced COGS 5%	ROI > 20:1 (18 months)
Healthcare Products	Increased availability >15% Improved OEE 10% Reduced maintenance costs 20%	ROI: >15:1 (3 years)
Primary Metals (34 Plants)	Reduced maintenance spending 10% Increased capacity (% confidential)	ROI 5:1 to 16:1 (3 years)
Metals Processing	Reduced maintenance spending 20% Increased anode capacity 10% Increased aluminum capacity 4%	ROI 16:1 (3 years)
Steel	Increased capacity through OEE improvements of greater than 2%	ROI > 11:1 (3 years)
Beverage	Increased capacity of high speed process > 25% / Reduced COGS 10%	ROI > 20:1 (24 months to date)

Sample results applying LCE's reliability principles and processes

By creating a smart culture, you can:

- Increase equipment availability
- Stabilize processes
- Reduce waste
- Improve overall equipment effectiveness (OEE)
- Lower maintenance cost
- Reduce spare parts inventory

Attributes of a smart culture

In the article "What high-reliability organizations get right" McKinsey authors identify four attributes of high-reliability organizations:

- Robust reliability processes
- Clearly defined roles
- Institutionalized knowledge
- Executive-level accountability

The RxM Experience

RxM will prepare you with strategies and tools to achieve these attributes through:

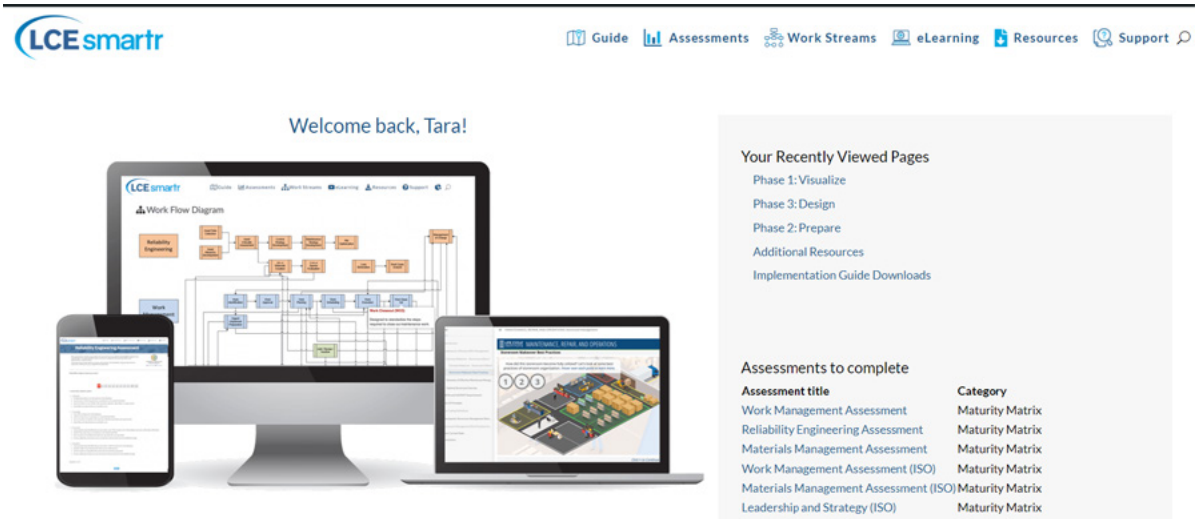
- Detailed implementation guide that includes change management tools, sponsor attributes, coaching strategies and metrics
- Reliability process maps and tools
- Responsibility charts and job descriptions
- eLearning and an online repository of institutional knowledge

RXM Content and LCEsmartr Playbook

RxM's content is aligned with industry standards and governance, including ISO 55000, GFMAM Asset Management Landscape and the SMRP Body of Knowledge.

RxM includes an Educational license to LCEsmartr Playbook, LCE's online reliability and maintenance system. Throughout the course, the playbook's Implementation Guide tools and resources will be used to apply a proven process for achieving a smart culture.

RxM is designed and developed by a team of respected thought leaders and authors in reliability and maintenance. The development team members hold the most highly recognized credentials in reliability, maintenance, learning, and project management. Credentials include CMRP, CRL, CRE, CPIM, IAM, PMP, and CPTD.



Implementation Guide	**Assessments**	**Work Process Diagrams**
Templates, documents, and resources providing step-by-step instructions for driving transformational change in your organization	Targeted questions for Reliability Engineering, Work Management and MRO Storeroom Management based on LCE's maturity model to determine the current state of your operations	A visual representation with summaries for each step of the Reliability Engineering, Work Management, and Materials Management work process flow diagrams
SMRP prep and eLearning Modules	**Sample Tools and Resources**	**Support**
150 questions to prepare for the CMRP exam! Plus modules of online courses that integrate relevant content in performance-driven, self-paced online courses for each work stream, plus	Sample available tools, templates and resources from the Reliability Engineering, Work Management and Materials Management work streams	An extensive glossary, tutorials, and FAQs are available anytime along with a powerful library search function to help you easily find anything you need.

When You Complete RXM

Because you will use LCE's online reliability and maintenance system, when you complete RxM you'll receive a certificate. Many past RxM participants have also achieved their Certified Maintenance and Reliability Professional (CMRP) certification by sitting for the exam following completion of RxM..

COURSE DESCRIPTION CONT'D:

Reliability Excellence for Managers

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Learn How To

Session1 – Develop a Smart Culture of Reliability

- State the driving factors in a culture of reliability
- Explain that reliability is the foundation for asset management and enables RCM, Lean, TPM and continuous improvement programs
- Conduct a reliability assessment and gap analysis
- Prepare a business case for reliability
- Develop a reliability policy, strategy, objectives, charter, principles, and scorecard
- Develop reliability roles, responsibilities, staffing, and investment
- Identify stakeholders in a culture of reliability
- Develop partnership agreements
- Explain the need for management commitment and active leadership

Session 2 – Reliability Work Streams and Change Management

- State work management, reliability engineering, materials management best practices
- Outline a work stream process improvement plan
- Prepare change management tools to engage employees in a smart culture around reliability and asset managment
- Develop a reliability risk management plan
- List critical success factors for implementing and managing change
- Describe four change roles and their primary activities

Session 3 – Measuring and Sustaining a Smart Culture

- Explain how reliability leadership, organization and performance evolve
- Develop key performance indicators to drive and manage performance
- Use a dashboard to report reliability progress
- Explain how to use audits and assessments to drive continuous improvement
- Outline a quick-win strategy to maintain employee engagement during implementation
- Share reliability success stories and best practices
- Use coaching cards and gemba walks to drive accountability
- Evaluate and build reliability competency across the organization

Participants complete on-the-job application assignments between sessions.

Who Should Attend

Reliability Excellence for Managers is ideal for corporate and plant managers, as well as those engaged in continuous improvement initiatives such as Lean, TPM and Six Sigma. Suggestions include Chief Operating Officer, V.P. Operations, General Managers, Plant Managers, Corporate Reliability Managers, Maintenance Managers and Operations 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 6.3 CEUs.
Location: 4360 Corporate Road, Charleston, SC 29405

Life Cycle Institute is different because:

- 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.