Eruditio’s inspired Blended Learning (iBL) empowers participants to take control of their learning experience through instructor-led classes, online curriculum, and skill applications within their facility or industrial environment.

iBL’s programs are aimed at maximizing the value that training brings to clients’ strategic objectives. Advanced adult learning techniques drive documented return on training investment through the use of:

- **eLEARNING**
- **DIRECT APPLICATION**
- **REAL WORLD EXAMPLES**
- **FACE-TO-FACE INSTRUCTION**
- **VIDEO**
- **COACHING**

### iBL IS AIMED AT MAXIMIZING THE VALUE OF TRAINING GAINS FOR OUR CLIENTS.

As opposed to traditional training, iBL is driven by direct application of the concepts to your site’s challenges through project-based learning. Participants apply each portion of the education as it is received so that when they finish the training, the Learning Project is also complete. With each participant completing only one Learning Project, the training has paid for itself and the participant has realized valuable real-world experience.

iBL’s Reliability Engineering Core Skills Development program enables organizations to:

- **EXPAND THE CAPABILITIES OF EXISTING MAINTENANCE AND RELIABILITY ENGINEERS**
- **DEVELOP NEW MAINTENANCE AND RELIABILITY ENGINEERS TO MEET GROWING NEEDS**
- **EXPECT TO SEE DOCUMENTED OPERATING AND MAINTENANCE COSTS DECREASE, REVENUES INCREASE, OR BOTH**
- **ENSURE RETENTION AND DOCUMENTATION OF THE LEARNING AND THE RESULTS THROUGH VIRTUAL LEARNING PROJECT COACHING**
- **BUILD A SUCCESSFUL RELIABILITY IMPROVEMENT PROJECT PLAN BY COMPLETING ACTIVITIES FOLLOWING EACH OF THE LEARNING MODULES**

### BUSINESS CASE

Tough to get training dollars? Let iBL help you build your business case. We can help you define your project and calculate projected return on investments for your iBL training program.
3-STEP PROCESS

1. LEARNING PROJECT KICKOFF
Participants attend a one-week Learning Project Kickoff aboard the USS Yorktown in beautiful Mount Pleasant, SC. The focus of the kickoff is to build a learning process foundation by providing exposure to the core philosophies of Maintenance and Reliability Engineering.

2. eLEARNING
Through its Learning Management System, iBL delivers interactive, virtual modules. Each module begins with a discussion of a singular concept using animated graphics that break the concept down into manageable bits of information. Some animations are interactive, allowing the student to manipulate the graphic in order to simulate various scenarios and further enhance the learning objective. Activities such as quizzes and matching and fill-in-the-blank exercises are then used to reinforce comprehension level learning objectives.

3. PRACTICAL APPLICATION
Following each eLearning module, an Eruditio coach will engage with the participant for a total of 160 hours of additional guidance. Coaches will employ the Learning Management System to deliver custom-designed tasks and real world, on-site applications of core skills to blend learning objectives and skills applications while facilitating the improvement of your Maintenance and Reliability Program.

eLEARNING CURRICULUM

Asset Health Management
- Introduction to AHM
- Preparing the Asset Catalog
- Analyzing Asset Criticality
- Vibration Analysis Fundamentals
- Ultrasound Fundamentals
- Infrared Thermography Fundamentals
- Motor Circuit Analysis Fundamentals
- Oil Analysis Fundamentals
- Reliability-Centered Lubrication Fundamentals
- Selecting Quantitative PMs
- Evaluating PM Program Effectiveness
- Direct Application and Coaching on Asset Health Management in your Facility

Work Execution Management Overview
- Introduction to WEM
- Introduction to Planning & Scheduling
- Writing Effective PM Procedures
- Establishing Standard Work
- Direct Application and Coaching on Work Execution Management in your Facility

Reliability Centered Maintenance
- Defining Probability and Consequences
- Writing Function and Functional Failure Statements
- Quantifying Failure Mode Effects
- Making Reliability-Based Decisions to Mitigate Risks
- Developing Equipment Maintenance Plans
- Direct Application and Coaching on Reliability Centered Maintenance in your Facility

Root Cause Analysis
- Introduction to RCA
- RCA Fundamentals
- Facilitating a Transparency-based RCA
- Facilitating a Tree-based RCA
- Facilitating a Time-based RCA
- Introduction to Failure Mechanisms
- Identifying Common Rotating Failure Modes
- Identifying Common Electrical Failure Modes
- Identifying Common Stationary Failure Modes
- Direct Application and Coaching on Root Cause Analysis in your Facility

Reliability Engineering
- Introduction to Reliability Fundamentals and Reliability Statistics
- Calculating Process Reliability
- Calculating Overall Equipment Effectiveness
- Calculating Life Cycle Costs
- Modeling System Reliability
- Calculating Maintainability
- Writing an Asset Validation Procedure
- Introduction to Energy Management
- Management of Change Fundamentals
- Direct Application and Coaching on Reliability Engineering in your Facility

Materials Management Optimization
- Creating an Equipment Bill Of Materials
- Calculating MRO Inventory Metrics
- Establishing Just-In-Time Inventory Controls
- Direct Application and Coaching on Materials Management Optimization in your Facility

For additional program and course details, visit the iBL catalog at student.ibltraining.com.
Eruditio utilizes the R⁵ Rapid Improvement Process structure to execute the Learning Project.

**RECOGNIZE**
- Selection of Candidates and Focus Lines
- Analyze Life Cycle Costs
- Model Reliability, Availability, & Maintainability
- Identify Rotating, Electrical, & Stationary Failure Mechanisms

**RATIONALIZE**
- Learning Project Philosophy Fundamentals
- Map Project Work to Sessions
- Analyze Asset Criticality
- Facilitate Root Cause Analysis (RCA)

**RATIFY**
- Complete Project Charter
- Present Project Charter
- Enroll in Curriculum
- Task Assignments
- Leadership Alignment to Charter

**RESOLVE**
- Complete Case Study Presented
- Certification Awarded
- Advanced Consideration

**REALIZE**
- Benefits
- Implement Improvement Methods

---

Eruditio, LLC
40 Patriots Point Road
Mount Pleasant, SC 29464
843.375.8222

www.eruditiollc.com

Contact our dedicated adult education staff at Coach@EruditioLLC.com or call 843.810.4446