



## Meridium Professional Services & Seminars

Meridium offers a comprehensive set of professional services and seminars for those needing to optimize their asset strategies in order to increase profitability and reduce risk. Meridium consultants work with you to review your existing practices, procedures and resources and to understand the technical, organizational, financial and management issues that affect asset performance.

A formal report of observations, conditions found, recommendations, MVAP scoring and an action plan is provided within 15 to 20 business days from the on-site assessment. Meridium consultants will deliver the findings to management stressing the value of the opportunity and the plan to capture it. Meridium delivers the report with a focus on the expected return on investment supported by a detailed business case.

### ● Meridium Value Assurance Program

The Meridium Value Assurance Program is designed to provide new clients with a roadmap toward a successful Asset Performance Management initiative. For existing clients it identifies opportunities for capturing the full value of current initiatives through the identification of opportunities and the recommendations of how to go after them.

A *Meridium Value Assurance Program Evaluation* is your company's first step toward becoming a world class performer in the optimal management of your production assets and work processes. Primarily, the MVAP Evaluation is an assessment of an organization's existing and needed capabilities. Based on Meridium's experience working with clients on their APM initiatives a comprehensive capability maturity model has been developed to help quantify maturity across six domains:

- Business Strategy
- Technology and Data
- APM Asset Integrity
- APM Reliability Optimization
- Departmental Discipline
- Organization and People.

### ● Meridium Asset Performance Management Consulting

Meridium consultants work as facilitators who can lead your organization to adopt an asset performance management culture that doesn't tolerate failures and provides significant return on investment.

Our consultants can provide recommended asset performance strategies and approaches for effective reliability improvements in these areas, among others:

- Process Hazard Analysis
- Criticality Assessment
- Risk Assessment
- Damage Mechanism Assessment
- RCM/FMEA Analysis
- RBI Analysis
- HAZOP/LOPA/SIL Assessment & Validation
- Root Cause Analysis
- Equipment Strategy Development
- Spare Parts Optimization
- Reliability Analysis (including production optimization)
- EAM Failure and Event Coding

## Meridium Seminars

Based on years of industry experience, Meridium consultants also act as instructors for a variety of seminars and workshops.

### **APM and The Manufacturing Game**

**Duration: 3 Days**

Meridium is certified to facilitate The Manufacturing Game, known throughout the industry as the most effective workshop for increasing team learning, cross-departmental communications and decision making that lead to eliminating plant defects and improving operations.

Through the use of practice fields and strategic simulation, participants learn in a very short time what usually takes several years to experience onsite at a plant. As leaders of the workshop, Meridium will teach attendees how to create an immediate action plan, align strategies with daily functional tasks and work through organizational issues to attain better asset performance management.

### **Meridium Reliability Certification Program**

**Duration: Varies**

Meridium's consulting team provides a reliability certification program designed for reliability engineers and management personnel. This program focuses on delivering the technical and cultural aspects of an all inclusive asset performance management system. The primary goal is not to simply teach reliability-related point solutions, but rather focus attendees on understanding the total, comprehensive aspects of an asset performance management system.

Although detailed training on reliability tools is included, what makes this program unique is that attendees are introduced to the work processes required to successfully implement a wide-ranging, continuous, and effective course of action.

This program reflects current industry practices, and typically requires approximately seven to eight weeks of workshops, seminars and case studies. Meridium can also tailor the course content to meet the specific needs of an individual organization or company.

### **Reliability Failure and Event Coding**

**Duration: 5 Days**

This five-day workshop focuses on the minimum data required to perform effective reliability analysis.

Addressed in this workshop is work history coding that includes repair and failure event codes from three sources: ISO 14224, Meridium Code Content, and ExxonMobil's equipment taxonomy. The workshop is designed to guide the user to understand the impacts and benefits of using work history codes with integrated data from their maintenance management system. Case histories, including examples of successful uses of work history codes in defect elimination processes, are provided. A sample set of Meridium pump work history codes are provided to each attendee.

### **Root Cause Analysis Methodology**

**Duration: 3 Days**

This three-day seminar is designed to provide a complete RCA methodology for eliminating or minimizing the most important failures in plants. These failures typically account for 80% of the operating losses of a typical plant. The seminar provides a step-by-step approach to identifying significant failures all the way through uncovering causes and implementing recommendations.

Geared to engineering, technical and management personnel, its highly detailed and verifiable approach has been used effectively in the field for major corporations around the world.

### **Reliability Centered Maintenance**

**Duration: 3 Days**

Building a program of proactive maintenance and operations actions is essential if optimal asset performance is to be achieved and sustained. Plants are increasingly turning to RCM to provide an auditable method of delivering business-driven asset performance maintenance strategies and policies.

This 3-day course provides both the fundamentals of the RCM method and an understanding of underlying philosophy. The seven steps to developing functions, functional failures, failure modes, failure effects, and proactive/default actions are explained and applied using common industry examples. Delegates will apply RCM to their own plant equipment to get a solid grasp of what the method entails and how it works.

## **SIS Life Cycle Management**

**Duration: 3 days**

SIS Life Cycle Management is a performance based process that encompasses the design of a SIS, the risk assessment that defined the Safety Integrity Level (SIL) that the system must comply with, installation and validation of the SIS prior to putting it into service and continuous monitoring of the performance of the SIS and all its components until the system is retired. This three day seminar will cover the life cycle stages and the methods for SIL assessment and SIL validation as defined in the international IEC 61511/ISA 84 Functional Safety: Safety Instrumented Systems for the Process Industry Sector. This seminar will use examples and case studies to help with the understanding of how and when the SIS process needs to be applied.

## **Six Sigma for Reliability**

**Duration: 3 days**

This course is designed to provide a basic understanding of Six Sigma and its uses in the reliability industry. While the Six Sigma methodology has proven successes in the quality arenas, this course will focus on using this rigorous process to solve some of the most complex reliability problems in your manufacturing facility. This course also includes a real-life case study on optimizing a preventive maintenance program.

## **Strategy Risk Review & Optimization**

**Duration: 5 days**

In this seminar, our consultants work with you on-site to assist maintenance and reliability resources in identifying risk categories, evaluating existing plans and developing recommendations. We use an approach that focuses on risk management to determine the appropriate level of mitigation and cost benefit of your asset strategy plans. Meridium developed this tactical solution to help you achieve your strategic goals of operating your assets safely and optimizing your maintenance actions to increase equipment availability and uptime.

## **Planning and Scheduling**

**Duration: 3 Days**

Achieving and maintaining an effective maintenance planning and scheduling system is an important maintenance strategy. Manufacturing plants are increasingly turning to and revitalizing their maintenance

planning and scheduling to provide a proven method of delivering business-driven asset performance maintenance strategies and policies. This three-day course provides both the fundamentals of maintenance planning and scheduling as well as an understanding of possible underlying issues and potential opportunities for growth.

## **Preventive (PM) & Predictive (PdM) Maintenance**

**Duration: 2 Days**

Employing the right mix of PM and PdM is usually difficult to achieve in any maintenance organization. Meridium subject matter experts in the field of PM and PdM guide attendees through an interactive process of determining what is the right level of PM and PdM for their organization. Optimizing preventive maintenance schedules and implementing predictive maintenance methodologies is the focus of this 2-day workshop.

## **Risk Based Inspection**

**Duration: 2 Days**

Benefits of a risk management process are the primary focus of this two-day workshop. Industry specifications API 580 and 581 are addressed and how Risk Based Inspection (RBI) fits within the framework of an enterprise asset performance management system. Demonstrations and discussions of a simulated RBI case study are included in this interactive presentation. Attendees will be provided with enough knowledge and information to develop their own effective RBI action plan.

## **Calibration Management**

**Duration: 1 day**

This seminar will provide attendees with the knowledge necessary to enable companies to standardize, manage, and optimize their instrument calibration strategies across the entire enterprise. Attendees will learn how instrument technical data can be classified and managed in a standard format, and the overall calibration plan and results can be captured and protected, meeting the compliance requirements of both OSHA 1910 and ISO 9000.

## Meridium Value Accelerators

Meridium offers a comprehensive approach to building the capabilities of your team through a combination of software training and hands-on, expert-led facilitations. These 3 week engagements work with your resources to lead a facilitation on your equipment or systems. Working with your resources and your equipment prepares them to continue the application of these methodologies.

Facilitations can be conducted in any of the following:

- Reliability Centered Maintenance
- Asset Strategy Management
- Criticality Assessment
- Safety Instrumented Systems
- Risk Based Inspection
- Root Cause Analysis

Our goal, like yours, is a comprehensive, successful Asset Performance Management initiative for your organization, resulting safe, reliable, and profitable operations. To learn how to better equip your company and employees with the necessary skills, expertise and knowledge to accomplish this, contact us at [info@meridium.com](mailto:info@meridium.com) for more information on how to get started.



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