



Management Association of Pakistan



Entrepreneurship & Management Excellence Center Institute of Business Management Management Association of Pakistan



Diploma Program in **ASSET PERFORMANCE MANAGEMENT**

Enabling Intelligent Asset Strategies to Optimize Performance

**Starting from
Monday, December 17, 2018**

Offered exclusively at Institute of Business Management (IoBM), the Asset Performance Management diploma program has been designed to build organizational capacity for excellence in asset management by developing relevant knowledge and skills across disciplines for those responsible for optimizing the performance of assets in order to increase reliability and availability, minimize costs, and reduce operational risks.

This program is relevant to mid-career professionals and senior managers from varied disciplines including Maintenance, Operations, Engineering, Supply Chain, IT, Business and Finance and from all types of organizations that manage large scale physical assets such as manufacturing, mining, oil refineries, chemical processing, public utilities and infrastructures.

Successful completion of the eight courses leads to a Diploma in Asset Performance Management from IoBM.

DIPLOMA CRITERIA

Complete Eight Compulsory Courses

- APM 101 APM FOUNDATION & MACHINE HEALTH
- APM 102 APM STRATEGY & ASSET RELIABILITY
- APM 103 FAILURE ELIMINATION & ROOT CAUSE ANALYSIS
- APM 104 MECHANICAL INTEGRITY AND RISK ANALYSIS
- APM 105 DATA ANALYTICS & VISUALIZATION
- APM 106 ASSET SAFETY & REGULATORY COMPLIANCE
- APM 107 APM ORG CULTURE & CHANGE MANAGEMENT
- APM 108 CAPSTONE

APM FOUNDATION & MACHINE HEALTH

Course: APM 101 | Fee: Rs.25,000 | Total Hours: 15

This course provides an overview of the foundational elements of Asset Performance Management (APM) and assists the participants to identify opportunities for application of APM's essential elements in their own organization to realize value. This course also provides an overview of APM decision-making tools such as: Asset Event Analysis, Asset Criticality Analysis, Asset Health Management, Calibration Management and Operator's Rounds.

APM STRATEGY & ASSET RELIABILITY

Course: APM 102 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 101

This course focuses on how to develop an APM Strategy to achieve excellent asset performance through proactive asset management plans designed for the purpose of mitigating risks. The course looks at evaluating asset risk and performance, mitigating risks with an action plan, optimizing mitigations, communicating an improved plan and implementing & executing strategy. This course also provides an overview of Reliability Centered Maintenance (RCM), Failure Modes & Effects Analysis (FMEA) and Asset Lifecycle Cost Analysis (ALCCA)

FAILURE ELIMINATION & ROOT CAUSE ANALYSIS

Course: APM 103 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 102

This course provides an overview of Failure Elimination tools and techniques and how these techniques can be used to improve the bottom line by decreasing costs of operations, increasing life of assets and eliminating unplanned downtime/outages, thereby maximizing benefits while optimizing usage of assets. The course also provides an overview on failure elimination capabilities such as Production Loss Analysis (PLA), Root Cause Analysis (RCA) and Reliability Analytics to quantify asset performance and facilitate strategies.

MECHANICAL INTEGRITY AND RISK ANALYSIS

Course: APM 104 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 103

This course provides participants with an understanding on mitigating the risk of loss of containment by implementing condition assessment activities. Participants will also learn risk mitigation tools & techniques such as Risk Based Inspection (RBI), Inspection Management (IM) and Thickness Monitoring (TM).

DATA ANALYTICS & VISUALIZATION

Course: APM 105 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 104

This course covers tools & techniques to utilize asset performance data in order to complete effective reliability analysis. The participants will learn the process to collect quality data (both structured and unstructured), use asset data and corresponding work history events and then to transform that data into a standardized format for visualization (dashboards) and decision making.

ASSET SAFETY & REGULATORY COMPLIANCE

Course: APM 106 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 105

This course covers Asset Safety focusing on maintaining safe work processes. The course teaches key safety aspects starting with assessment of operating risks, determination of safety integrity levels, design validation, plan to achieve safety levels, execute strategy and monitor performance. Other topics which are covered include Hazards Analysis, Calibration Management and Safety Instrumented Systems.

APM ORG CULTURE & CHANGE MANAGEMENT

Course: APM 107 | Fee: Rs.25,000 | Total Hours: 15

Prerequisite: APM 106

This course will cover tools & techniques to address challenges that will impact organizational culture and people during APM transformation journey covered in previous courses. The course will cover topics such as stakeholder engagement, change readiness, key APM personas, day in the life, roles & responsibilities and communications. The participants will learn how to develop a change program that will drive change in the organization and generate commitment; support the business in managing people related to risks, understanding the needed change initiatives and required preparation.

CAPSTONE

Course: APM 108 | Fee: Rs.35,000 | Total Hours: 30

Prerequisite: APM 101-107

The Capstone course reviews the elements of the previous 7 courses and provides participants with the opportunity to apply the principles, concepts, techniques and learning to a final project. Working as either individuals or in teams, participants will select a project that will audit, assess and improve their company's operations by implementing APM tools & techniques.

DIPLOMA FEE

Per module: Rs. 25,000/-

Capstone: Rs. 35,000/-

Total Diploma Fee: Rs. 210,000/-



COURSE INSTRUCTOR

Mehboob Karim, P.Eng.

Mehboob Karim is a Senior Asset Performance and Reliability Subject Matter Advisor. He has over twenty five years of experience with private and public sector industries in Canada, USA and Australia.

As a Senior Advisor, Mehboob provides direction on reliability improvement projects using asset management solutions with tools such as Asset Criticality and Risk Assessments, Spare Parts Criticality, Stocking Strategies, Maintenance Management Practice Assessments, Supply Chain and Operations Management, Business Case Studies, Reliability Centered Maintenance, Enterprise Asset Management (EAM) and Asset Performance Management (APM) Systems.

Mehboob Karim is a Registered Professional Engineer in the Province of Ontario. He holds certifications in Supply Chain and Operations Management (CISCOM), APM and Meridium Solutions (GE Digital). He is PEMAC* certified instructor of Maintenance Management Professional (MMP) certification courses in Canada. Mehboob is a recipient of Sergio Guy Award 2005 presented by PEMAC to outstanding engineering and maintenance practitioners of Canada.

**PEMAC – Plant Engineering and Maintenance Association of Canada (www.pemac.org)*

Entrepreneurship & Management Excellence Center

Korangi Creek, Karachi-75190, Pakistan

UAN +92-21 111-002-004, Fax: +92-21 35090968

Email: emec@iobm.edu.pk

www.mec-iobm.com