



Blaze Avenue

Empowering Business Ideas

**GAS TURBINE RELIABILITY IMPROVEMENT AND
MAINTENANCE COST REDUCTION IN PROCESS AND
POWER GENERATION
(REDUCING OPERATIONAL AND MAINTENANCE ISSUES)**

**4 D A Y S
W O R K S H O P**

**HOTEL STRIPES, KUALA LUMPUR
23rd - 26th APRIL 2018**

Course Facilitator : Syed Nadeem Ahmed

A comprehensive 4 Day interactive course on effective operational management of Gas Turbine in Power Plants, examining the performance, operational issues and life assessments for gas turbines aimed at improving gas turbine operational and maintenance practices, minimizing the likelihood of failures, ensuring higher reliability thus prolonging asset life and reducing maintenance costs per hour of operation.

TRAINING METHODOLOGY

The comprehensive training will be facilitated using modern techniques, supported by case studies from real power plant environment and videos. The Analysis tools application to maintenance, reliability and failure analysis of Gas Turbine will be exercised with mini workshop within the sessions. The participants are requested to bring their laptops to exercise analysis software with their own plant Gas turbine data. Repair vs. replacement decisions on specific equipment will be exercised during sessions.

WHO SHOULD ATTEND

- Maintenance Management
 - Managers
 - Engineers
 - Chief Engineers
 - Vice Presidents
 - Maintenance Staff
 - Maintenance Planning Managers
 - Maintenance Program Engineers
 - Reliability Engineers and Managers
 - Finance and Procurement Managers
- From Power Plant, Oil and Gas, and LNG**

BENEFITS OF ATTENDING

- Improved job performance and decision making capabilities
- Understanding the design concepts of Gas Turbines
- Equipment Performance evaluation throughout the lifecycle
- Understanding life extension evaluation and recommendations
- Understanding GT equipment key performance indicators
- Reliability Program development and implementation for Gas Turbines
- Operational cost monitoring, KPIs
- Understanding operation and maintenance requirements
- Equipment Repair vs. Replacement decision
- Technology transfer between participants

LEARNING OBJECTIVES

After completing this course, participants/delegates will be able to understand / conduct:

- Gas Turbines Basics and Applications
- Material Systems employed in Gas Turbines
- Degradation Mechanisms and how to predict them
- Trend / Condition Monitoring of Gas Turbines
- Failure Analysis for Gas Turbine
- Operational and Maintenance issues of Gas Turbine
- Development in improving Gas Turbine Performances
- Bad Actors Management Program
- Management of Gas Turbine components
- Maintenance Planning & Reliability Programs for Gas Turbines
- Work-scoping in Gas Turbine with emphasis on Cost Reduction
- Customer Specific GT Machine Case Studies – Model XXXXX
- Warranty and Insurances related to Gas Turbine Operation





COURSE INSTRUCTOR

Syed Nadeem Ahmed

RAM / RCM / MSG3

Asset Management Performance System Application Specialist

A highly experienced Professional Engineer with Six Sigma qualification & demonstrated ability to lead diverse teams of professionals to new levels of success in a variety of highly competitive industries, cutting-edge markets, and fast-paced environments. Over 27 years of experience in Engineering industry in the field of Maintenance and reliability engineering, Risk based analysis and studies, performance evaluation of Power Plants, Plant maintenance repair & overhaul of Turbo Machinery in Oil & Gas, Petrochemical, Power Generation and Aviation Industry. Strong technical qualifications with an impressive track record comprising of Plant and Equipment Maintenance Strategies. Proven ability to successfully analyse an organization's critical engineering requirements, identify deficiencies and potential opportunities, and develop innovative and cost-effective solutions for enhancing efficiency, increasing reliability, Maintenance cost reduction and improving engineering processes. Highly sought after Technical Trainer in Process, Power Generation and Aviation in RCM Based Maintenance & Reliability Program Development / Implementation Strategies, Turbo Machinery, Risk Based Maintenance Study, Plant Asset Management & Reliability Analysis.

CORE COMPETENCES

Over 27+ years of experience in Mechanical Power Engineering, Consulting, Training & Development include:

- **Process , Power Generation Plants & Aviation**
 - o Asset Life cycle Management Strategies ,
 - o APMS Asset Management Standards Implementations / Meridium Solutions
 - o RCM based Maintenance & Reliability Program development and implementation. o Aircraft MSG3
- **Maintenance Program Development**
 - o Reliability Analysis & Risk Based Studies.
 - o Remaining Life Assessment Studies, Evaluation, Extension Recommendations
 - o Reliability Management Frame work Development and Implementation
- **Work scope optimization**
 - o Aero & Aero derivative Power Plants Turbo Machinery Maintenance Repair & Overhaul o Petrochemical Plant Rotating Equipment Maintenance / Repair & Overhaul
- **Thermal and CCPP Power Generation Performance Evaluations Specific Focus Turbo Machinery**
- **GE Frame Machines 5 , 6 , 7 , 9 Seimens V93.4 , RB211-524G**
- **Process and Petrochemicals Critical / Rotating Equipment Performance / Functional Reliability & Specific**
- **Equipment Plans**
- **RAM / RCM Study for Power & Process Plants, Units, Systems / Refineries**
- **Plant, Equipment RCFAs,RBD Modelling ,FMECA,RCM Program Implementation**
- **Focused Lean Six Sigma Technical Certifications for Maintenance and Reliability Professionals.**
- **Communication and Analytical skills**
- **Process improvement**
- **Building and Managing Teams**

