



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



## POWER & ENERGY DIVISION



*Continuing Professional Development Programme on*  
**Asset Integrity Management for Power  
Plants & Process Industry**

**01 - 03 March, 2017**



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

**Centre for Promotion of Professional Excellence**

## INTRODUCTION

Power Plants and Process Industry constitute an important element of industrial sector that contributes a great deal to the national GDP. Management of physical assets particularly those of capital intensive ones such as power plants and process industry, plays a vital role in deciding their safe operation, business performance, profitability, and ensuring compliance with regulatory requirements, etc. Further, the management of non-physical assets such as sustenance of brand value, reputation, assurance of customer delight through technical excellence etc. need to be taken care of since these can also significantly influence organisational performance outcomes positively and negatively.

The entire framework of processes and sets of activities in power plants and process industry, which ensure operational effectiveness, efficiency, safety and elimination / minimisation of risks associated with the assets not only when they are new but also throughout the various stages of their life cycle is called **Asset Integrity**. Asset integrity is influenced through the entire life-cycle activities such as appropriate design, engineering, procurement, installation, commissioning, workforce training-development-retention, supplier development and partnering, operation, maintenance, remnant life analyses, refurbishment, life extension and disposal.

The **Asset Integrity Management Plan** provides a structured method of translating overall organisational strategic objectives into their achievement in alignment with the requirements of Asset Integrity. The recently introduced **ISO 55001 Standard For Asset Integrity Management (AIM)** provides a structured approach for organisations to demonstrate their commitment to Asset Integrity and the introduction, reinforcement and continuous improvement of Asset Integrity Management Plans and related processes, through periodic audits by certified independent third party agencies.

## OBJECTIVES

- To enable participants to gain familiarity with Asset Integrity Management (AIM) together with related concepts, structure, processes in power plants and process industry.
- To understand how AIM can be aligned to an organisation's key business objectives with all stakeholder expectations.
- To gain introductory level familiarity with the ISO 55001: 2014 Standards for Asset Management Systems
- To understand the broad steps/activities required to introduce an Asset Management System in an organization.

## COURSE COVERAGE

- Understanding physical and non-physical assets, Asset Management and Asset Integrity Management in Power plants and Process Industry
- Life Cycle Phases of Assets and Corresponding Vulnerabilities
- Techno-Economic Decisions and Maintenance Strategies in power plant industry
- Contemporary Techniques for Diagnostics, Condition Assessment in power plants
- Remaining Life Assessment and Life Extension of Critical Components
- Strategic Human Resource Development
- Supplier Management, Development and Partnership
- Minimising Environmental Impact and compliance of Regulatory requirements.
- Introduction to **ISO 55000:2014**: Standard for Asset Integrity Management.
- Selected exercises, and case studies

## **METHODOLOGY**

- highly interactive participative learning
- practical orientation with emphasis on “HOW TOs” –
- reinforcement through individual and group exercises
- intellectual impact to participants provided through selected real life case studies

## **FACULTY**

Apart from Core Internal Faculty, Consulting Firms, Government Organisations, Manufacturing, Academic and Research Institutions etc. will share the sessions.

## **TARGET PARTICIPANTS**

Middle to Senior level executives/managers associated with Plant Management from Power Plant and Process Industry including Fertilizers, Chemical, Petrochemical, Pharma, Space, Atomic Energy, Navy etc., associated with Operation/Production, Electrical Maintenance, Mechanical Maintenance, Instrumentation and Control, Plant Performance Management, Safety and Environment Management and Material Management, Logistics functions.

## **PROGRAMME VENUE, DATES & TIMINGS**

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, Telangana, India.

## **DATES**

**01 - 03 March, 2017**

## **TIMINGS**

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

## **COURSE DIRECTOR**

**A Chandra Mohana Rao**

Head I/c & Sr. Faculty - Power & Energy Division, ESCI

## **COURSE ADVISOR**

**B Prahlad**

Former Dy. Chief Executive, Nuclear Fuel Complex, DAE

## **RESOURCE PERSON**

**M Venkat Ram**

Former Deputy General Manager, Tata Power, Mumbai. Former Senior Consultant – Tata Quality Management Services. Former Certified Senior Business Excellence Assessor – Tata Business Excellence Model former Member, Central Boilers Board – Government of India

## **COURSE FEE**

**Residential Fee** is Rs.15,000/- (Residential) per participant. Residential fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

## **DISCOUNTS**

**Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.

**Group Discount:** 10% discount for three or more participants if sponsored by the same organization.

**(All discounts are applicable only if fee is received at ESCI a week before the commencement of the programme)**

**Service Tax @ 15%** is to be paid extra over and above the training fee. ESCI's **Service Tax Registration No** AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994). **PAN Card No.** AAATT3439Q;

The course fee is to be paid in favour of “**IE (I) – ENGINEERING STAFF COLLEGE OF INDIA**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI – SB A/c No. 10007111201** with The SBI, PBB Rajbhavan Road Branch, Khairatabad, Hyderabad – 500 004 by **NEFT / RTGS / IFSC Code No: SBIN 0004159 – MICR No: 500002075**. While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

**Head I/c, Power & Energy Division**

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone 040–6555 3370 / 3371 / 3372; 040- 64103370, Fax: 040 - 23000336

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

**CERTIFICATE:** A certificate of participation will be awarded to each participant on conclusion of the programme.

**GENERAL INSTRUCTIONS**

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.