



Engineering Staff College of India

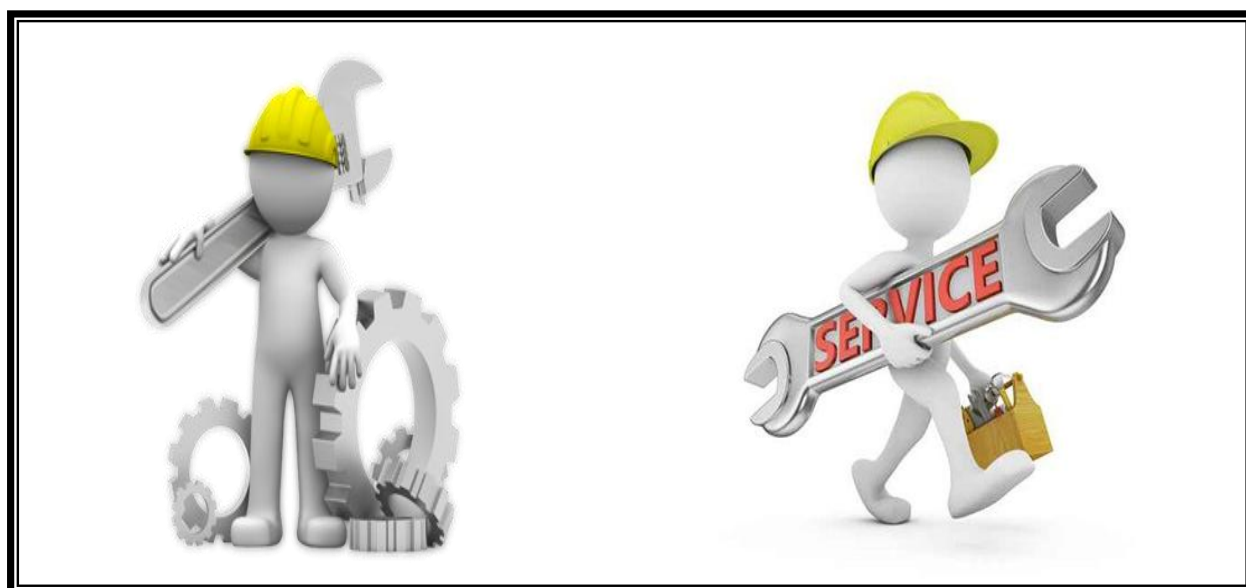
Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



POWER & ENERGY DIVISION

Training Programme on
**Reliability Centered Maintenance - Issues
and Challenges**

26 - 29 December 2018



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

Centre for Promotion of Professional Excellence

INTRODUCTION

Initially equipment failure was considered undesirable and therefore the sole objective of maintenance was to “**preserve**” equipment. This blind approach led to many other problems, such as being too conservative in operation and maintenance actions, assuming all failures are to be avoided, or carrying out maintenance activities simply because there was an opportunity to do so.

Maintenance is considered as an activity carried out on equipment on its breakdown or to ensure its reliability to perform its functions. It is generally accepted as a necessary task. However it also entails financial consequences arising not only due to cost of material & labour for the maintenance activities, but also downtime of equipment, connected plant and most of all due to eventual loss of production/business opportunity. Ineffective maintenance may also lead to undesirable consequences such as the organisation’s **inability to meet committed targets, penalties, loss of reputation, erosion of brand value** etc.

Technological advances in several inter-related disciplines, such as **FMECA (Failure Modes and Effects Criticality Analysis), Condition Monitoring** and **Condition Based Maintenance**, have given rise to a number of new techniques to monitor, measure and appropriately diagnose condition of critical plant machines which may not be running as well as they should. By giving “early indication of potential failure”, they enable appropriate corrective action to be taken well in advance, thus avoiding equipment damage, downtime and also significantly reducing maintenance costs. Pooling in the collective expertise and experience of multiple experts in maintenance as well as several other inter-related disciplines, the relatively new maintenance approach for individual critical equipment known as “**Reliability Centred Maintenance**” is now gaining increasing applicability. The focus here is not on merely preserving equipment but on clearly understanding the expected functions of the equipment and preserving and ensuring the performance of such functions, in the most reliable and cost-effective manner.

OBJECTIVE

- To give participants an exposure to and a clear understanding of the above concepts, approaches and practices.
- To familiarise participants with how to use the individual techniques
- To enable participants to select the most appropriate maintenance strategy.

COURSE COVERAGE

- Role, Significance and Functional Requirements of Maintenance
- Understanding Failures, Types of Failures, Failure Frequency and the Bathtub Curve.
- Root Cause Failure Analysis, Failure Modes and Effects Criticality Analysis (FMECA), Potential Failures and the P-F Curve.
- Maintenance Strategies, Run to Failure Maintenance, Periodic Maintenance, Predictive Maintenance, Run-Repair-Replace Analysis, Diagnostics and Condition Assessment. RLA and Life Extension of Critical Components.
- **Reliability Centred Maintenance (RCM)**, How to introduce RCM in organizations.
- Selected **Real Life Case Studies**

METHODOLOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The faculty will act as provocateurs and resource persons and demonstrate application oriented studies rather than as teachers. The participants are expected to play a very active role not only as learners and facilitators but also as experts and practitioners in their own right.

FACULTY

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

TARGET PARTICIPANTS

Middle to Senior level Executives / Managers associated with maintenance (Mechanical, Electrical, C&I), in all types of Industries and Power Plants, Engineering College Professors and Faculties.

PROGRAMME VENUE, DATES & TIMINGS

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

DATES

26 – 29 December 2018

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.

ACCOMMODATION

Participants will be accommodated in our Executive Hostel located within ESCI Campus. The accommodation will be on twin sharing basis.

COURSE DIRECTOR

A Chandra Mohana Rao

Head & Sr. Faculty - Power & Energy Division, ESCI

COURSE ADVISOR & 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. 20,000/- per participant. 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)

GST @18% (as applicable) is to be paid extra over and above the training fee. ESCI's **Provisional ID No. 36AAATT3439Q1ZV, 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. 33705165550** with The SBI, Manikonda Branch, Gachi Bowli, Hyderabad – 500 032 by **NEFT / RTGS / IFSC Code No: SBIN0011076 – MICR No: 500002107.** While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

REGISTRATION

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, Power & Energy Division

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 6630 4170 to 4177; 040-6630 4100, Fax: 040 – 23000336, 66304103

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.