

First Information Brochure

The Institution of Engineers (India)

*97 years of Relentless Journey towards
Engineering Advancement for Nation Building*

All India Workshop

On

QUALITY IMPROVEMENT IN PRODUCTS AND PROCESSES: PRINCIPLES, METHODS AND APPLICATIONS

October 27 – 28, 2017

Organised by

The Institution of Engineers (India)
West Bengal State Centre



Under the aegis of
Production Engineering Division Board, IEI

In association with



Indian Institute of Engineering, Science and
Technology Shibpur
Howrah 711103, India

Venue: IEST, Shibpur

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata – 700 020, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 120 Centres located across the country. The Institution has established R&D centres at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects.

IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Govt. of India. Every year as many as 90000 candidates appear for these exams. For details, please see: www.ieindia.org

ABOUT THE WEST BENGAL STATE CENTRE, IEI

The erstwhile Bengal Centre was established in 1921 at Calcutta in order to cater to the needs of the members of the entire eastern region of India. The Bengal Centre in due course was divided to Bihar Centre at Patna in 1947, Assam Centre at Shillong in 1958, Orissa Centre at Cuttack in 1959. At present, the erstwhile Bengal Centre is known as West Bengal State Centre situated alongside the IEI Headquarters located at 8 Gokhale Road, Kolkata 700 020. There are four Local Centres under the jurisdiction of West Bengal State Centre, located at Asansol, Durgapur, Kharagpur and North Bengal. Pursuant with its objective of propagating the cause of engineering science and technology, it organizes various seminar/ symposium / conferences/ Short-Term Courses on the contemporary engineering and technological issues.

INTRODUCTION

After globalization of markets and liberalization of Indian economy, the Indian industries have been experiencing stiff competition. In such a competitive environment, industries need to continually improve quality of their products, services and processes. **Quality improvement approaches with support and commitment of top management, makes significant difference to an organization's performance.** The current trend of retraining of executives, senior management, and the entire labour force, and the growing emphasis on process technology management and new product development (NPD) reflects the desire of Indian management for continuous improvement in order to achieve higher customer satisfaction through improved quality of products and processes,

reduction of reworks and rejects, and reduction of product cost.

In this context, training programmes on quality improvement are highly important and useful as they help participants assess the status of quality improvement practices in their organizations vis-à-vis those desirable. Persons trained in these areas become the driving force behind the successful implementation of quality systems in their organizations.

Academics with proven knowledge, industrial experience, and demonstrable ability in teaching, consultancy, research, and training in the field of Six-sigma and related areas will deliver and demonstrate lectures, tutorials, and cases in the short-term course.

OBJECTIVES OF THE PROGRAMME

The main objectives of the programme are as follows:

- Exposing participants to the fundamentals of quality improvement
- Building, in the participants knowledge and confidence in the varieties of the state-of-the-art quality improvement methodologies
- Providing exposure to practical problems and their solutions, through case studies and live projects in the field of quality improvement
- Enhancing the capability of the participants to identify, control, and remove the quality-related problems, in products and processes
- Reducing the gap between demand and supply of trained manpower in the field of quality improvement

TOPICS

- Elements of effective problem solving for control and breakthrough improvement

- Quality improvement principles in products, processes and organizations
- Quality improvement approaches in products
- Quality improvement approaches in processes
- Integrated models for quality improvement in organizations
- Specific tools and techniques and their application for quality improvement
- Implementation Framework for quality improvement

WHO SHOULD PARTICIPATE

The managers and executives at middle and senior levels from manufacturing/service/IT sectors as well as faculty members from academic institutions.

LEVEL OF PARTICIPATION

The personnel responsible for routine decision making and those involved in improvement exercises. The participants should be able to work with Microsoft Excel.

TEACHING FACILITY

- Two faculties would conduct the class room sessions
- It is advisable to restrict the number of participants between 20 to 25 for the programme. Teaching will be made using LCD Projector and Writing Board (white board). As there will be number of classroom exercises, participants need to have scientific calculators/computer for his/her use.

PROGRAMME SCHEDULE

9 am to 5 pm with 2-hour lunch break on each day.

TRAINING METHODS

The training programme consists of lecture sessions, hands-on exercises, computer demonstrations, discussions on cases and live problems.

NATIONAL ADVISORY COMMITTEE

Chairman: Mr N B Vasoya, FIE, President, IEI
Co Chairman: Dr D K Tripathy, FIE, Chairman, PRDB, IEI

Convenor: Mr Ranjan Dutta, FIE, Honorary Secretary, WBSC, IEI

Members: Dr S Satyanarayana, FIE, Member, PRDB, IEI
Mr R Selvaraj, FIE, Member, PRDB, IEI
Prof (Dr) N R Bandyopadhyay, FIE, Council Member, IEI

ORGANIZING COMMITTEE

Chairman: Mr Kashmir Lal Mallik, FIE, Chairman, WBSC, IEI
Organizing Secretary: Professor Bijan Sarkar, FIE

ADDRESS FOR CORRESPONDENCE

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APPLICATION AND FEE

The programme is designed to be offered for a duration of **two days**. Number of participants for each course module will be limited to **twenty five**.

The fee for the programme is **Rs 5,000 per participant**. All payments are to be made through crossed Demand Draft drawn in favour of “**The Institution of Engineers (India), West Bengal State Centre**” payable at Kolkata. The course fee includes course materials, working lunch, and tea/coffee during lecture schedules only.

ACCOMMODATION

Participants have to arrange their accommodation on their own. Expenses towards travel and local hospitality are to be borne by them separately.

Venue: Indian Institute of Engineering, Science and Technology Shibpur

1. Name: _____
2. Affiliation: _____
3. Educational Qualification:

4. Address for Correspondence:

5. Telephone: _____
6. Mobile: _____
7. E-mail: _____
8. Bank Draft Details:

Draft No. _____
Date: _____
Amount Rs. _____
Bank: _____
Branch: _____

Signature of the Participant

Signature of the Sponsoring Authority
(with Seal)

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