

Process Control and Capability Course

(Transforming manufacturing processes from inspection-driven quality to process-driven excellence)

(10 – 14 August, 2026)



Organized By:

**Subir Chowdhury School of Quality and Reliability
IIT Kharagpur, INDIA
&
Indian Electrical & Electronics Manufacturers'
Association (IEEMA)**

About the Subir Chowdhary School of Quality and Reliability, IIT Kharagpur

IIT Kharagpur is the largest technical institution in India. It is ranked among the top five Indian universities by ranking agencies. The Subir Chowdhury School of Quality and Reliability was formerly known as the Reliability Engineering Center (REC). REC came into existence in 1981. It offers M. Tech, M.S., and PhD degree programs in Quality and Reliability Engineering. The school is actively engaged in research and consultancy projects for the government and private organizations. It is also offering a short-term, capability-specific course tailored to the needs of the industry.

Brief About the Course

In line with IEEMA's mission of Quality First, Safety Must and Reliability for customer trust, the course aims to develop the capability of participants to understand, measure, monitor, control, and continuously improve manufacturing processes by applying internationally recognized statistical and quality engineering techniques.

The electrical manufacturing sector faces challenges such as process variation, rework, field failures, customer complaints, inconsistent product quality, and rising manufacturing costs. Effective process control helps organizations move from reactive problem-solving to proactive process management.

Who Should Attend?

Practicing Engineers from Production and Manufacturing, QA & QC Professionals, Process and Industrial Engineers, Shop Supervisors and Line Managers, maintenance engineers involved in process improvement & process stability in Power & Distribution Transformers, Switchgear and Control Gear, Cables & Conductors, Rotating Machines, Power Electronics Equipment, Transmission & Distribution Products, Renewable Energy Electrical Products, Smart meters etc.

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Day 1. Process Understanding

- a) Understanding the Process
- b) Process Data Collection & Presentation

Day 2. Process Variability

- a) Quantitative & Qualitative Data
- b) Sampling Methods

Day 3. Process Control

- a) Quality Control Charts for Variables
- b) Quality Control Charts for Attributes
- c) Process Control Charts for Detecting Small Shifts

Day 4. Process Capability

- a) Process and Measurement System Capability Analysis
- b) Multivariate Process Capability Analysis

Day 5. Process Improvement

- a) Root Cause Analysis
- b) Six Sigma Process Capability

How to Apply

- You can send your nominations to IEEMA or IIT directly
- Course Fee: Rs. 25,000.00 (18%GST Included) per participant
- Accommodation shall be reserved for participants at the IIT Kharagpur Technology Guest House. The guests need to pay actual room and food charges (approx. Rs. 2,000 per day).
- The account and other payment details will be shared after shortlisting of the participants.

Some Important Points

- A maximum of six participants can be sponsored from one organization.
- The classes will be conducted in offline mode at IIT KGP
- Certificate will be provided based on the attendance and a test at the end of the course.

Principal Coordinator

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Faculty

Experts from IIT Kharagpur and other organizations with relevant industry experience will deliver lectures and interact with participants during this course.