



ENGINEERING STAFF COLLEGE OF INDIA



Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)
Old Bombay Road, Gachibowli, Hyderabad – 500 032. Telangana, India

Quality & Productivity Division

Continuing Professional Development Programme on

AI, IOT and Digital Tools for achieving Total Quality Management (TQM) in Vigilance

Dates: 5 – 7 October 2026

at ESCI Campus, Hyderabad

INTRODUCTION

Vigilance functions are increasingly evolving from traditional inspection and complaint-based approaches towards **data-driven, technology-enabled and preventive vigilance**. Emerging technologies such as **Artificial Intelligence (AI), Internet of Things (IoT), Data Analytics, Automation and Digital Platforms** can significantly enhance transparency, risk identification, monitoring, process integrity and accountability.

This three-day programme is designed to equip vigilance and administrative professionals with practical knowledge of **AI, IoT and digital tools** that can be applied to strengthen vigilance mechanisms, identify irregularities, improve process quality and support a culture of **Total Quality and Preventive Vigilance**.

OBJECTIVES

Upon completion of this programme, participants will be able to:

- Understand the role of AI, IoT and digital technologies in modern vigilance systems.
- Apply data analytics and AI-based techniques for identifying anomalies, risks and irregularities.
- Understand how IoT can support real-time monitoring and process transparency.
- Use digital tools for risk-based vigilance and preventive controls.
- Identify potential fraud, corruption and process deviations using data-driven approaches.
- Develop dashboards and digital reports for effective vigilance monitoring.
- Strengthen documentation, audit trails and digital evidence management.
- Integrate technology-enabled vigilance with Total Quality Management (TQM) principles.

COURSE COVERAGE

The following course content will be detailed during the training programme:

- Fundamentals of Modern Vigilance & Total Quality Management (TQM)
- Introduction to Artificial Intelligence
- Data-Driven Vigilance
- AI for Risk & Anomaly Detection
- Internet of Things (IoT) – Fundamentals
- IoT for Transparency & Real-Time Monitoring
- Digital Tools for Vigilance
- Integrating AI, IoT & Digital Tools with Total Quality

BENEFITS TO THE PARTICIPANTS

Participants will gain practical understanding of:

AI & Machine Learning
Generative AI
Data Analytics
IoT & IIoT

METHODOLOGY

Methodology of the programme includes class room Sessions with Lecture/discussion with audio visual aid, benched marked practices if any, video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive demanding active participation from all the members. Case Method of Instructions will be the main method of knowledge facilitation.

TARGET PARTICIPANTS

Vigilance Officers, Chief Vigilance Officers (CVOs), Senior Management Professionals, Integrity & Compliance Officers, Internal Audit Professionals, Quality Assurance Professionals, Procurement & Contract Management Officials, Finance & Accounts Officers, IT/Digital Transformation Professionals, Risk Management Professionals, Government and PSU Officials and Officers involved in inspection, investigation and monitoring

EXPERT FACULTY

The faculty consists of experts from industry, Entrepreneur and academia, besides that from ESCI. Specialists with extensive experience in ISO 17025: 2017 auditing will share the sessions.

PROGRAMME DIRECTOR

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PROGRAMME OFFICER

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PROGRAMME DATES & TIMINGS

Dates: 5 – 7 October 2026

Timings : On the first day, Registration will commence at **09:30 Hrs**. On all other days the programme timings will be from **09:45-17:15 Hrs** with breaks in between for tea & snacks.

COURSE FEE:

RESIDENTIAL: **Rs. 18,000/- (Rupees Eighteen Thousand only)** per Participant + GST@18% Extra. Fee includes, course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

NON- RESIDENTIAL: **Rs. 16,200/- (Rupees Sixteen Thousand Two Hundred only)** per Participant. Fee includes, course material, course kit, lunch, tea / coffee and snacks during the actual days of training programme

Online: WebEx platform.

Rs. 10,500 /- (Rupees Ten Thousand& Five Hundred only) per participant + GST@18% Extra.

TRAINING FEE PAYMENT OPTION:

PAN Card No AAATT3439Q; GST No. 36AAATT3439Q1ZV. H.S. No. 999293 (Under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favor of **“THE INSTITUTION OF ENGINEERS (INDIA) – 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. 912010049234564 with Axis Bank Ltd., Gachibowli branch, Old Mumbai Highway, Cyberhills Colony, P Janardhan Reddy Nagar, Gachibowli, Hyderabad – 500032, T.S., by NEFT/ RTGS/ IFSC Code No. UTIB0000733 – MICR No.500211020. While using EFT method of payment, please ensure to communicate us your company name, our Invoice reference and programme title.

CERTIFICATION

A Certificate of participation will be awarded to each participant on conclusion of the programme.

REGISTRATION

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to: Email: **qp@escihyd.org**

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation).
- Well-developed Information Centre and Internet facilities are available to the participants free of cost.