

INDIAN STATISTICAL INSTITUTE
SQC & OR Unit
Street No. 8, Habsiguda, HYDERABAD

announces

Online Certification Program

On

STATISTICAL METHODS

for

INTEGRATED MANAGEMENT SYSTEMS

(ISO 9001 QMS, ISO 14001 EMS & ISO 45001 OHSMS)

21st Feb – 15th March 2026

(Saturdays & Sundays: 9.30am-1.30pm)

(8 Half days)

Phone: 040 2715 3984, 040 2717 1906

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Website : www.isihyd.ac.in

Clauses related to Statistical Methods from few ISO Standards

(viz., ISO 9000, ISO 9001, ISO 9004, ISO 14001, ISO 45001 & ISO 10017 Standards)

ISO 9000:2015 Quality management systems – Fundamentals and vocabulary

[The following clause(s) advocate(s) application of Statistical Techniques]

2.3.6 Evidence-based decision making

2.3.6.1 Statement: *Decisions based on the analysis and evaluation of data and information are more likely to produce desired results*

2.3.6.2 Rationale: *..... Facts, evidence and data analysis lead to greater objectivity and confidence in decision making.*

ISO 9004:2018 Quality management – Quality of an organization – Guidance to achieve sustained success

[The following clause(s) advocate(s) application of Statistical Techniques]

10.1 Analysis and evaluation of an organization's performance.

The organization should establish a systematic approach to collect, analyse and review available information

10.2.3 these measurable Key Performance Indicators(KPIs) should be:

10.2.3 a) to set measurable objectives, monitor and predict trends, and take actions for improvement....

10.3 Analysis of the organization's performance should enable

10.4.4establish and maintain a methodology for benchmarking

ISO 9001:2015 Quality management systems – Requirements

9.1 Monitoring, measurement, analysis and evaluation – The organization shall evaluate the performance and effectiveness of the QMS.

NOTE Methods to analyse data can include statistical techniques

ISO 14001:2015 Environmental management systems

– Requirements with guidance for use.

[The following clause(s) advocate(s) application of Statistical Techniques]

9 Performance evaluation

9.1 Monitoring, measurement, analysis and evaluation

- The organization shall monitor, measure, analyse and evaluate its environmental performance

ISO 45001:2018 Occupational Health and Safety Management Systems

[The following clause(s) advocate(s) application of Statistical Techniques]

9.1.1 Monitoring, measurement, analysis & performance evaluation of OH&S

The organization shall establish, implement and maintain a process(es) for monitoring, measurement, analysis and performance evaluation.

ISO 10017:2021 Guidance on Statistical Techniques for ISO 9001:2015

3.1 statistical technique

methodology for the analysis of quantitative data associated with variation in products, processes, services and phenomena under study to provide information on the object of the study.

4 Statistical techniques

descriptive statistics, design of experiments, hypothesis testing, measurement system analysis, process capability analysis, regression analysis, reliability analysis, sampling, simulation, statistical process control, statistical tolerance & time series analysis.

(the above list is not complete / exhaustive)

Integrated Management System(IMS)

IMS is basically integrating or merging of two or more management systems. In the present context IMS deals with the three generic management systems of Quality, Environment and Occupational Health and Safety. Viz., ISO 9001:2015 Quality Management Systems, ISO 14001:2015 Environmental Management Systems and ISO 45001:2018 Occupational Health and Safety Management Systems.

These three generic standards are based on the methodology of PDCA (Plan-Do-Check-Act) Cycle aimed at continual Improvement. ISO 9001 specifies requirements for a QMS to consistently provide and continually improve product/service that meets customer requirements. ISO 14001 specifies requirements for Environmental protection to mitigate the environmental pollutions. ISO 45001 specifies requirements for Occupational Health and Safety Management Systems.

BENEFITS

Integrated Management Systems offers numerous benefits including improved statutory & regulatory compliance, optimized performance of Quality, Environment, Occupational Health and Safety processes. Achieve Quality, Environment, Safety & Health (QESH) Objectives and relevant measurable Key Performance Indicators (KPIs) aligned to business goals resulting in reduced redundancy and costs.

TOPICS

Coverage of the following ISO standards viz., ISO 9000:2015, ISO 9004:2018, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 10017:2021 - Guidance on Statistical Techniques for ISO 9001. Correspondence among the clauses of ISO 9001, ISO 14001 and ISO 45001. Gap analysis, IMS Policy and QESH Objectives, Documentation, Road map to IMS, Benefits of IMS, Environmental Aspect/Impact studies, Identification of significant Aspects, HIRA, Identification of significant Hazards, Legal Requirements, MSDS, EPP, OCP, QMPs, EMPs, H&SMPs, WPs etc. Guidelines on IMS Audits, preparation of NCRs and Audit reports. Roadmap to Certifications under the IMS.

Types of Data, Measures of location and dispersion, Statistical distributions – Binomial, Poisson & Normal. Seven Tools of QC. Understanding variation – Special causes vs. Common causes. Measurements Systems Analysis. Evaluation of Process Capability and Process Capability Indices. Monitoring of results through SPC- Control Charts for Variables and Attributes. Brief coverage of Six Sigma concepts.

The participants shall use Desktop / Laptop Computers. Minitab Statistical Software will be extensively used during the training. MINITAB Software (Free-one-month-trial-version) may be downloaded from the site www.minitab.com

Certification criteria

Participants securing 70% Marks in the Online Test conducted on the last day of the training program will be awarded Successful Completion Certificate. Others will be given Participation Certificate.

PARTICIPANTS' PROFILE

- Degree or Diploma holder in any discipline with basic knowledge of quality management.
- Experience of involvement in Quality Improvement projects is desirable.
- Management Personnel/Executives from functions– R&D, Production, Marketing & Distribution, Purchase, QA/QC, Calibration & Testing, SCM, HR, SHE etc.
- MRs / DMRs / CMRs or personnel associated with activities related to ISO 9001 / ISO 14001 / ISO 45001 (desirable but not mandatory)

FACULTY

- Dr. S M Subhani, Indian Statistical Institute, Hyderabad

GUEST FACULTY

- Lead Auditor, Quality Council India, New Delhi

PARTICIPATION FEE

<i>Program</i>	<i>Participation Fee</i>	<i>Fee plus GST</i>
STATISTICAL METHODS FOR INTEGRATED MANAGEMENT SYSTEMS (8 Half days)	16,000	18,880*

***Please make payment, after confirmation from us only.**

Payment Options:

- Online Transfer: Canara Bank, J S N Colony Branch, Habsiguda, Hyderabad.
Name of Account holder: Indian Statistical Institute, Current A/c No : 30451010000079,
IFSC Code : CNRB0013045*
- Demand Draft drawn in favour of INDIAN STATISTICAL INSTITUTE payable at Hyderabad.*

LAST DATE

Last date for submission of Registration form: 12th February 2026

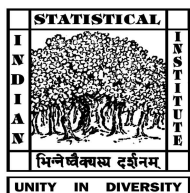
Program Director:

Dr. S M Subhani

Sr. Specialist SQC&OR, Consultant & Trainer
Six Sigma, Data Analytics, ISO 9000, ISO 14001, ISO 45001
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Registration Form

1. Programs applied for:
2. Organization (*Optional*):
3. Name of the Participant:
4. Mailing Address:
5. e-mail :
6. Gender:
7. Age:
8. Phone:
9. Qualification:
10. Nationality:

Payment Details *	
Amount (Rs.)	Rs. 18,880
Transaction Number	
Bank / Branch Name	
Date	
Additional Information (if any)	

***Please make payment, after confirmation from us only.**

Name:

Date:

Terms and Conditions

1. Program Dates:
2. Duration: As per the brochure
3. Course fee per person: Applicable Participation Fee + GST

4. **Online fund transfer details**

- a. Name : **Indian Statistical Institute**
- b. Bank : **Canara Bank**
- c. Account No. : **30451010000079**
- d. IFSC Code : **CNRB0013045**
- e. Type of Account : **Current Account**

Note: Please mention the participant's name and program(s) names in the Remarks column while making the online transfer of the course fee

5. **Tax-related Information:**

- a) Taxpayer Trade Name : Indian Statistical Institute
- b) Taxpayer Legal Name : Indian Statistical Institute
- c) Income Tax Permanent A/c No. : AAAAI0345R
- d) Provisional GST ID No. : 36 AAAAI0345R1ZG
- e) SAC Code : 998393
- f) Category : Scientific & Technical Consultancy Services

6. No refund of the course fee will be entertained after the commencement of the program.
7. Participation is confirmed after receipt of
 - a) Filled in application form
 - b) Course fee in full (DD or Online transfer)
8. ISI will provide a receipt for the payment received after the start of the course. The same is to be used as proof of payment. ISI accounting system does not entertain any other form of documentation.
9. Any participant who has applied for the program is understood to have gone through and accepted these terms and conditions.