



ISO 9001:2015

National Academy of Construction

A Society under Govt. of Telangana

Virtual/Off-line Program
on

Uncertainty Measurement
26 & 27 November, 2021



NAC Grounds, Hitex, Cyberabad, Hyderabad-500084, Telangana, India
Phone: (040)23110839; Fax: (040)23111997
E-mail: sheshadri@nac.edu.in

INTRODUCTION

Measurements are always made for a purpose - may be to answer a specific question or to help solve a problem. Whenever a measurement is made there will always be some uncertainty about the result due to unavoidable errors in the measurement process. The validity of absolute measurements made have little meaning unless the uncertainty of the test or calibration process is known. Many standards, including ISO/IEC17025 and ISO/TS16949, require that the uncertainty of measurement be taken into account when performing test and calibration activities.

Knowledge of the uncertainty associated with measurement results allows a judgment to be made as to whether the data are likely to be 'fit for purpose' if comparisons of results are being made. The evaluation of the uncertainty associated with measurement results is a requirement for testing laboratories accredited to ISO/IEC17025.

OBJECTIVE:

This two-day workshop will acquaint delegates with the requirements of ISO/IEC17025, particularly the salient principles in The Expression of Uncertainty in Measurement, which defines methodologies to calculate uncertainty budgets, as well as covering the basic statistics required.

This course provides a practical approach to evaluating uncertainty interesting laboratories which is in line with the ISO principles for uncertainty estimation and current accreditation requirements. The course assumes no prior knowledge of uncertainty evaluation.

COURSE CONTENT:

- Introduction to the concept of measurement uncertainty and the importance of uncertainty of measurement
- Basic concepts :traceability, uncertainty and terminology
- Statistics for measurement uncertainty estimation
- Impact of uncertainty on results and compliance with specifications
- Type A uncertainties and selection of statistical tools
- Type B uncertainties - identification and use
- Combined uncertainties
- Expanded uncertainties and confidence intervals
- Reporting of uncertainties
- Worked examples

METHODOLOGY:

The program will be conducted Virtual / Off-line interactive environment providing scope for discussions. Emphasis will be on a highly participative style of learning through Presentations, Case Studies and hands-on exercises.

INFRASTRUCTURE REQUIREMENT FOR VIRTUAL PARTICIPANTS:

A Desktop / Laptop with a high speed reliable internet connection and Audio & Video capabilities.
A Head set is recommended.
Virtual Class room through Zoom/Google Meet etc. Virtual Conferencing apps.

COURSE DIRECTOR:

Head-Corporate Quality & Productivity Wing, NAC

FACULTY:

Apart from core internal faculty, experts from industry, consulting firms, government organizations, academic and research institutions and others will share the sessions.

PROGRAM VENUE, DATES & TIMINGS:

Venue : Virtual / off-line in NAC Campus, Cyberabad, Kothaguda Post, Hyderabad, Telangana 500084

Dates : 26 & 27 November,2021(14Hours-2Days)

Timings: Daily 10:00 -17:00Hrs., with breaks in-between for tea and lunch.

COURSE FEE:

Virtual : Rs.6,000/- + 18% GST per participant. Fee Includes course material.

Off Line : Rs.9,000/- + 18% GST per participant. Fee Includes course material, lunch, tea/coffee and snacks during the actual days of training program.

Course fee shall be paid before commencement of the training program.

CERTIFICATE:

A certificate of participation will be awarded to each participant on conclusion of the program.

MODE OF PAYMENT:

Payment may be made by Electronic Fund Transfer (NEFT) to DG, NATIONAL ACADEMY OF CONSTRUCTION - HYDERABAD - SB A/c No. 62422229281 with SBI, MADHAPUR- 500 081, IFSC Code SBIN0021162,GST No.36AAAAN0794M1Z8.

On payment of course fee, please communicate us your company / individual name and program title in the transaction reference.

REGISTRATION:

To register please send your nominations giving details of name, designation, contact address, email address, mobiles number of the participant to:

The Head
Corporate Quality and Productivity Division,
National Academy of Construction,
NAC Grounds, Cyberabad, Hyderabad-500084,
Direct Phones:(040) 23111916-917 Fax:-(040)23111997
Mobile:9866114616
Email:sheshadri@nac.edu.in/corporatequality@nac.edu.in
Website:[www.https://nac.edu.in](https://nac.edu.in)

Welcome to National Academy of Construction

National Academy of Construction (NAC) is registered as a Society under State Government of Telangana and incorporated as Public Charitable institution. Construction is one such area where technology is developing at a very fast rate. Hence one needs proper understanding of the technology and importance of proper training. Starting with one Centre and five trades and training 150 technicians per year, NAC has grown surely and steadily to 110 Centres throughout Telangana and Andhra Pradesh States and 21 trades today with target of training 1,00,000 technicians per annum. Apart from this its operations are reaching the nooks and corners of India, and also beyond sea sparing no hardship and hindrance.

NAC is spread over 46 acres of prime land in the IT Corridor in Hyderabad. It is located adjacent to HITEX Exhibition grounds and HICC.

ACCOLADES

NAC received

- CIDC Vishwakarma Achievement Award for the years 2016, 2018, 2019 and 2021 for Best Construction Skill Development Organization,
- ASSOCHAM Award for the years 2018 and 2019 for Best Institute - Placement, and
- Golden Peacock National Training Award for the years 2017 & 2019.

INFRASTRUCTURE

The facilities at the NAC campus consists of Auditorium, Seminar Halls, Class Rooms, Board Rooms, NAC Residency, Parking area under the Display Centre and Canteen.

General Information

- NAC encourages participants to present case studies from their respective organizations.
- Well-developed Information Centre and Internet facilities are available to the participants.
- NAC campus is centrally located near to Hitech City, High Tech city MMTS station & Metro station.
- Close to major Shopping malls, Hitex and other convention & recreational centres etc.

Our Upcoming Training Programs for the year 2021-2022 are given below:

S.NO.	PROGRAM TITLE	TYPE	SCHEDULE	DURATION	COURSE FEE (IN INR)
1	ISO 17025 : 2017 Lab Management Awareness & Internal Auditing as per NABL Requirements	Virtual or Off-line	22 - 25 Nov. 2021	4 days	Virtual
			13 - 16 Dec.2021		9,000 + GST @ 18%
			04 - 07 Jan. 2022		Off-line
			08 - 11 Feb 2022		14,000 + GST @ 18%
			07 - 10 Mar 2022		
2	Uncertainty Measurement	Virtual or Off-line	26 - 27 Nov. 2021	2 days	Virtual
			17- 18 Dec. 2021		6,000 + GST @ 18%
			10- 11 Jan 2022		Off-line
			14 - 15 Feb. 2022		9,000 + GST @ 18%
			14- 15 Mar. 2022		
3	Outcome Based Education	Virtual	16 - 18 Nov. 2021	3 days	9,000 + GST @ 18%
			20 - 22 Jan. 2022		
			21 - 23 Mar 2022		
4	Six Sigma Green Belt	Virtual	07 - 10 Dec. 2021 02 - 05 Feb, 2022	4 days	15,000 + GST @ 18%
5	Effective Vigilance for Organisational Excellence	Virtual	19 -21 Jan 2022	3 days	9,000 + GST @ 18%
			21 - 23 Feb 2022		
6	5 'S' for Organisational Excellence	Virtual	14 - 16 Dec. 2021	3 days	9,000 + GST @ 18%
7	IRCA Registered ISO 9001:2015 QMS Lead Auditor	Virtual	13 - 17 Dec. 2021	5 days	18,000 + GST @ 18%
			18 -22 Jan. 2022		
			22 - 26 Feb 2022		
8	Effective Purchase Management	Virtual	02 - 04 Dec. 2021	3 days	9,000 + GST @ 18%
9	Conflict Management, Decision Making & Problem Solving Skills	Virtual	27 - 29 Jan. 2022	3 days	9,000 + GST @ 18%
10	Executive Leadership & Team Building for Organizational Development	Virtual	24 - 26 Feb 2022	3 days	9,000 + GST @ 18%
11	IRCA Registered ISO 45001:2018 Lead Auditor Training	Virtual	13 -17 Dec.2021	5 days	18,000 + GST @ 18%
12	Cyber Security Best Practices	Virtual	03 - 05 Mar, 2022	3 days	9,000 + GST @ 18%
13	ISO 14001 EMS Lead Auditor Training	Virtual	13 - 17 Dec. 2021	5 days	22,000 + GST @ 18%
14	Certified Internal Auditor Training for Integrated Management System (IMS) (ISO 9001 QMS, ISO 14001 EMS & OHSMS 45001)	Virtual	27 - 29 Dec. 2021	3 days	9,000 + GST @ 18%
15	Quality & Reliability	Virtual	28 - 30 Mar, 2022	3 days	9,000 + GST @ 18%