



**National Academy of Construction**

ISO 9001:2015

**A Society under Govt. of Telangana**



**Offline Program**

on

**Uncertainty Measurement**

29- 30 Apr, 2024

NACGrounds, Hitex, Cyberabad, Hyderabad-500084, Telangana, India

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## 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 concepts of MU & its evaluations.

This course provides a practical approach to evaluating uncertainty in measurement which is in line with the ISO principles for uncertainty estimation and current accreditation requirements.

## COURSE CONTENT:

- Concept of measurement uncertainty and the importance of uncertainty of measurement
- Terms & Definitions
- 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 Classroom through Zoom/Google Meet etc. Virtual Conferencing apps.

## COURSE DIRECTOR:

Head-Corporate Quality & Productivity Wing, NAC

## **FACULTY:**

Experts with rich experience and knowledge will share the session.

## **PROGRAM VENUE,DATES & TIMINGS:**

Venue: NAC Campus, Hyd.

Dates: 29<sup>th</sup> & 30<sup>th</sup> Apr 2024

Duration: (2 Days)

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

## **COURSEFEE:**

Online Fee Rs. 7000/- + 18% GST (Fee includes course material) and Offline Fee Rs.10,000 + 18% GST. Fee includes course material, lunch, tea/coffee and snacks during the actual days of training program

## **CERTIFICATE:**

A certificate of Attendance 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 CodeSBIN0021162,GSTNo.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)23111916-917Fax:-(040)23111997  
Mobile:9866114616  
Email: [sheshadri@nac.edu.in/corporatequality@nac.edu.in](mailto:sheshadri@nac.edu.in/corporatequality@nac.edu.in)  
Website: [www.https://nac.edu.in](http://www.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 seas 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 HITEC Exhibition grounds and HICC.

### ACCOLADES

NAC received the following prestigious Awards during 2016 to 2021 for its outstanding performance.

- CIDC Vishwakarma Award 2021
- Assocham Award 2019 for Best Institute - Placement Gold Winner
- ASSOCHAM - National Leadership Excellence Awards 2019- Skill Development / Vocational Training (South)
- Assocham Award 2019
- CIDC Vishwakarma Award 2019
- Golden Peacock National Training Award 2019
- Assocham Award 2018
- CIDC Vishwakarma Award 2018
- Golden Peacock National Training Award 2017
- CIDC Vishwakarma 2016

### 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.