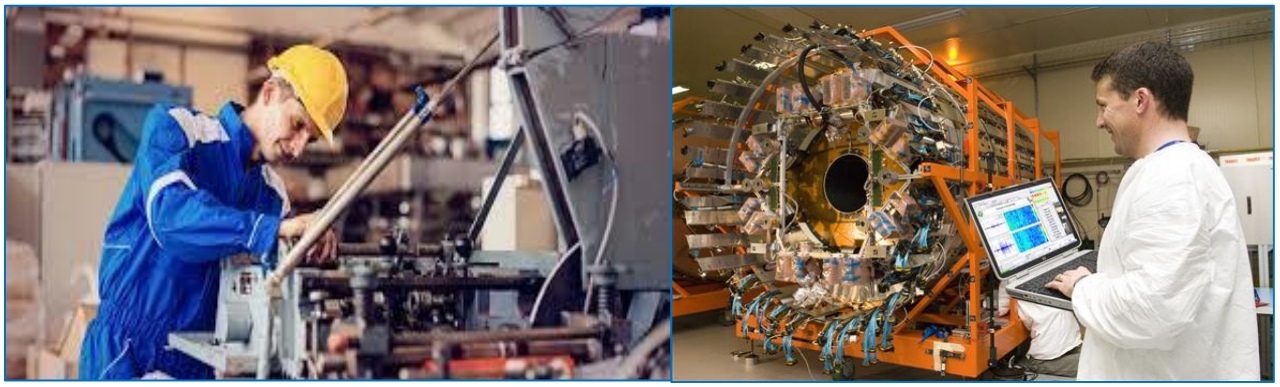
Tel No:+97126654546 | Fax No:+97126654182 | Email: aisha@cmc-me.com | www.cmc-me.com



IE232-3D:
Mechanical Measurements

Tel No:+97126654546 | Fax No:+97126654182 | Email: aisha@cmc-me.com | www.cmc-me.com

Training Description:

This intensive training course covers the measuring instruments and methods of measurements; the proper instruments; the principles of measuring instruments; and the technical specifications of measuring instruments.

During this interactive course, participants will learn the classification of gauges and the engineer's steel ruler; the callipers and vernier callipers; the errors and precautions of using callipers; and the vernier height, depth gauge, micrometers, sine bar, sine table, surface plate and straight edge.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Apply and gain a comprehensive knowledge on mechanical measurement tools and instruments
- ✓ Classify the measuring instruments and methods of measurements
- ✓ Select proper instruments and discuss the principles of measuring instruments
- ✓ Define and discuss technical specifications of measuring instruments
- ✓ Classify gauges and describe the engineer's steel ruler
- ✓ Identify callipers and vernier callipers as well as discuss the errors and precautions of using callipers
- ✓ Determine vernier height and depth gauge, micrometers, sine bar, sine table, surface plate and straight edge

Training Designed for:

This course is intended for mechanical, electrical and instrumentation engineers and other technical staff.

Training Program:

THREE DAYS:

- ❖ Pre-Test
- ❖ Introduction
- ❖ Classification of Measuring Instruments
- ❖ Classification of Methods of Measurements
- ❖ Selection of Instruments
- ❖ Principle of Measuring Instruments
- ❖ Definitions
- ❖ Technical Specifications of Measuring Instruments
- ❖ Gauges
- ❖ Classification of Gauges
- ❖ Engineer's Steel Ruler
- ❖ Calipers
- ❖ Vernier Calipers
- ❖ Errors in Calipers
- ❖ Recap
- ❖ Practical Sessions
- ❖ Precautions in Using Calipers

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- Vernier Height and Depth Gauge
- Micrometers
- Sine Bar
- Sine Table
- Surface Plate
- Straight Edge
- Course Conclusion
- Post-Test and Evaluation

Training Requirement:

"**Hand's on practical sessions, equipment** and **software** will be applied during the course if required and as per the client's request".

Please note that the above topics can be amended as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

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For training registrations or in-house enquiries, please contact:

Aisha Relativo: aisha@cmc-me.com
Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615
Training & Career Development Department