Garnet
Garnet Global Training Center

GGT-MT-117

Metrology, Calibration & Testing

# Mechanical Testing of Materials

الاختبارات الميكانيكية للمواد

| Duration | Language | Formats | Hours | Level |
|---|---|---|---|---|
| **5 or 10 days** | **English or Arabic** | **Classroom, online, in-house** | **35 / 70** | **Intermediate (practitioner)** |

## Overview

Participants in Mechanical Testing of Materials practise the methods, tools and standards they need to perform reliably and solve problems on the job. Accurate measurement, calibration and laboratory competence for industry and regulators. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

## What you will be able to do

- Apply the methods and standards of Mechanical Testing of Materials to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

## Who should attend

Calibration and test lab staff, quality engineers, instrument technicians and lab managers. Practitioners with one to five years of experience benefit most.

## Key topics

- Measurement principles
- Traceability and standards
- Uncertainty
- Calibration procedures
- ISO/IEC 17025 requirements
- Proficiency testing

## Formats and fees

| | |
|---|---|
| 5-day classroom | **USD 4,750** |
| 5-day online | **USD 2,950** |
| 10-day classroom | **USD 8,950** |
| 10-day online | **USD 5,450** |
| In-house | **Quotation per group** |

Fees per participant, excluding VAT.

## Register or ask

**WhatsApp:** +971 56 674 7382

**Email:** info@garnettrainings.com

**Training:** training@garnettrainings.com

**Web:** garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

## Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

## 5-day outline

### Day 1 Mechanical Testing of Materials: principles and standards

- Proficiency testing
- Hands-on workshop on a workplace challenge

### Day 2 Methods and tools in practice

- Measurement principles
- Traceability and standards

### Day 3 Diagnosis and problem solving

- Uncertainty
- Common mistakes and how to avoid them

### Day 4 Quality, safety and documentation

- Calibration procedures
- Regional and international case studies

### Day 5 Workshop, assessment and action plan

- ISO/IEC 17025 requirements
- Checklists and templates to take away

## 10-day outline

### Day 1 Mechanical Testing of Materials: principles and standards

- Proficiency testing
- Hands-on workshop on a workplace challenge

### Day 2 Methods and tools in practice

- Measurement principles
- Traceability and standards

### Day 3 Diagnosis and problem solving

- Uncertainty
- Common mistakes and how to avoid them

### Day 4 Quality, safety and documentation

- Calibration procedures
- Regional and international case studies

### Day 5 Workshop, assessment and action plan

- ISO/IEC 17025 requirements
- Checklists and templates to take away

### Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Group discussion and peer review

### Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

### Day 8 Benchmarking against international practice

- Global performance benchmarks
- Measurement and reporting

### Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

### Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

## Schedule 2027–2030

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 10–14 Jan 2027 | 5-day classroom | Manama | English | 4,750 |
| 17–21 May 2027 | 5-day online | Live online | English | 2,950 |
| 4–15 Jul 2027 | 10-day classroom | Amman | Arabic | 8,950 |
| 13–17 Sep 2027 | 5-day classroom | Barcelona | English | 4,750 |
| 20–24 Feb 2028 | 5-day classroom | Kuwait City | Arabic | 4,750 |
| 7–18 Aug 2028 | 10-day classroom | Dubai | English | 8,950 |
| 4–8 Sep 2028 | 5-day classroom | Singapore | English | 4,750 |
| 18–29 Dec 2028 | 10-day online | Live online | Arabic | 5,450 |
| 18–22 Jun 2029 | 5-day online | Live online | English | 2,950 |

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 16–27 Jul 2029 | 10-day classroom | London | English | 8,950 |
| 12–16 Aug 2029 | 5-day classroom | Jeddah | English | 4,750 |
| 15–19 Oct 2029 | 5-day classroom | Paris | English | 4,750 |
| 1–5 Jul 2030 | 5-day classroom | Geneva | English | 4,750 |
| 12–23 Aug 2030 | 10-day classroom | Dubai | Arabic | 8,950 |
| 2–6 Sep 2030 | 5-day classroom | Abu Dhabi | English | 4,750 |
| 16–27 Dec 2030 | 10-day online | Live online | Arabic | 5,450 |

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/