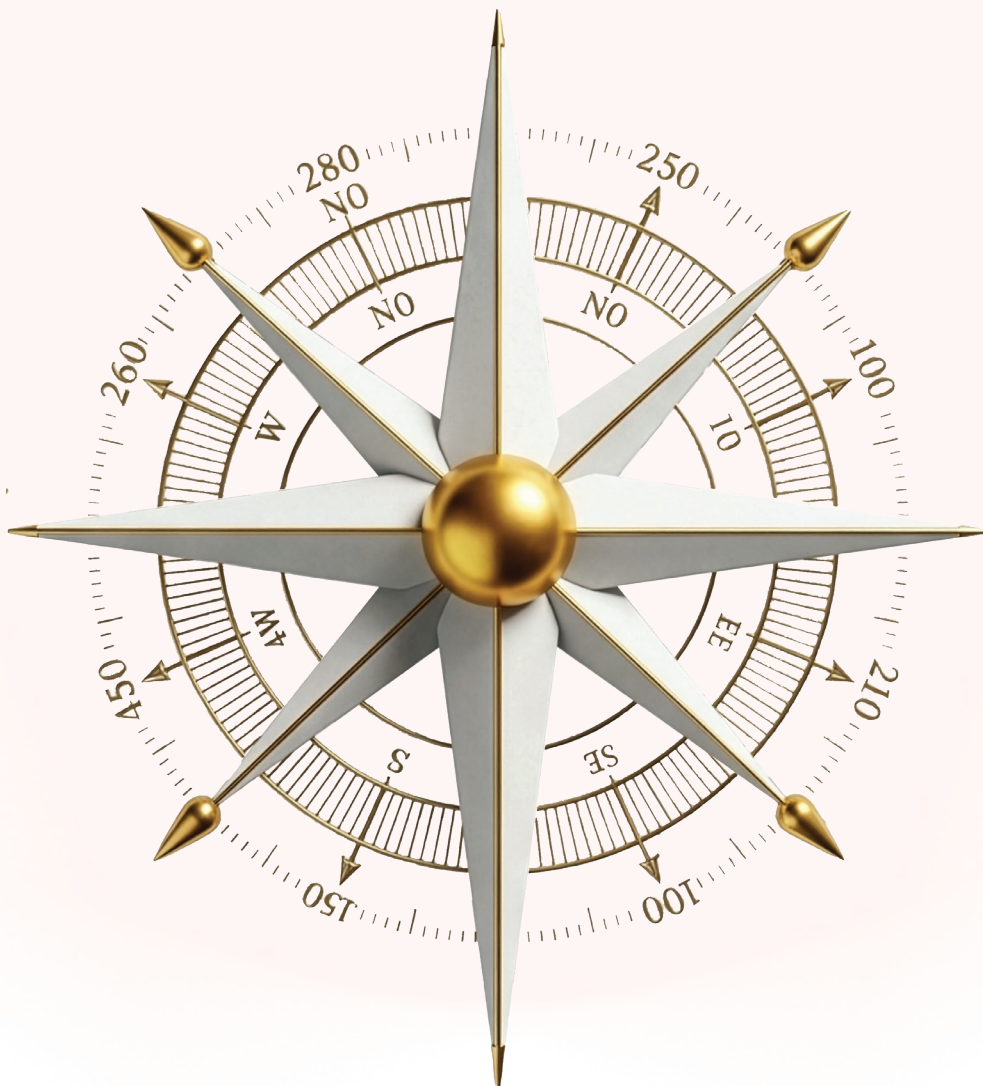




Legal Metrology and Weights and Measures Inspection Course: Scales, Fuel Dispensers and Prepackages

27 September – 1 October 2027
Paris - Right Bank business hotel



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Ref: 1770_27256 **Date:** 27 September – 1 October 2027 **Location:** Paris - Right Bank business hotel **Fees:** 23500 SAR

Introduction:

Legal metrology and weights and measures inspection of scales, fuel dispensers and prepackages is a 5-day course for inspectors and trader compliance staff, ending with a Weights and Measures Inspection and Market Surveillance Plan for a case fuel and supermarket chain. Buyers lose money when shop scales drift beyond tolerance, dispenser seals are broken, packed goods run short and findings are recorded too loosely to act on. Nominees already test trade instruments or check packed goods, and work through inspection walkthroughs with test weights, proving measures and sample packages. CoreConcept Training Center delivers this legal metrology course.

Course Objectives:

- Classify trade measuring instruments and prepackages under the OIML Recommendations and the legal control stage each one requires
- Read type approval certificates and evaluation reports to confirm that an instrument in service matches its approved pattern
- Verify non-automatic weighing instruments and fuel dispensers against maximum permissible errors using standard test weights and proving measures
- Check prepackaged goods for nominal quantity, tolerable negative error and labelling with a reference sampling plan
- Record verification marks, seal breaches and nonconformities in inspection reports and case files that support follow-up action
- Build a risk-ranked weights and measures inspection and market surveillance plan for a retail or fuel network

Target Audience:

- Field inspectors who test scales, fuel dispensers and meters in shops, markets and service stations
 - Municipal and commerce inspection staff who check packed goods and net quantity labels at retail outlets
 - Standards-body technical staff who process type approval files and perform initial verification
 - Fuel station supervisors responsible for dispenser seals, delivery accuracy and inspection readiness
 - Retail and packing-line quality staff accountable for scale checks and net content control
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Course Outline:

Day 1: Legal Metrology Scope, Instrument Categories and Site Baseline

- Legal Metrology Versus Scientific and Industrial Measurement Roles
- Trade Measuring Instrument Inventory by Category and Use
- Legal Control Stages From Type Approval to Market Surveillance
- Verification Marks, Sealing Points and Inscription Plates Reviewed
- Site Baseline Walkthrough of a Shop and Service Station

Day 2: OIML Recommendations, Type Approval and Instrument Requirements

- OIML Recommendations, Documents and Basic Publications Structure
- OIML R 76 Accuracy Classes and Verification Scale Intervals
- OIML R 117 Measuring Systems for Liquids Other Than Water
- OIML R 49 Water Meters and Utility Meter Legal Control
- OIML Mutual Acceptance Arrangement Certificates and ISO/IEC 17065 Issuers

Day 3: Verification of Scales, Fuel Dispensers and Prepackages in the Field

- Standard Test Weights Selection and Handling for Scale Tests
- Eccentricity, Repeatability and Weighing Tests on Shop Scales
- Proving Measure Test Drafts on Fuel Dispenser Nozzles
- OIML R 87 Nominal Quantity and Tolerable Negative Error Checks
- E-Mark Average System Batch Acceptance and Sampling Plans

Day 4: Nonconformities, Tampering Signs and Enforcement Records

- Seal Breach, Software Change and Tampering Indicator Checklists
- Dispenser Short Delivery and Price Computing Fault Diagnosis
- Packer Production Check Records and Underfill Root Causes
- Inspection Report, Rejection Label and Instrument Withdrawal Notice
- Evidence Case File Structure for Follow-Up and Repeat Visits

Day 5: Inspection Walkthrough and Market Surveillance Plan Build

- Case Chain Briefing With Outlet, Dispenser and Packer Data
 - Walkthrough Scale and Dispenser Test Results Interpretation
 - Prepackage Sample Lot Findings and Batch Decision Exercise
 - Risk-Ranked Visit Frequency and Sampling Allocation Grid
 - Weights and Measures Inspection and Market Surveillance Plan Completion
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Skills You Will Gain:

- Trade Instrument Classification
- Type Approval File Review
- Weighing Instrument Testing
- Fuel Dispenser Proving
- Net Content Sampling
- Tamper Evidence Detection
- Inspection Case File Preparation
- Market Surveillance Planning

Why Attend This Course:

- Deliver a Weights and Measures Inspection and Market Surveillance Plan to the inspection head or the network compliance manager for approval
- Decide whether a scale, dispenser or packed lot passes, needs adjustment or is withdrawn from trade using stated error limits
- Avoid short-measure complaints, disputed findings and repeat visits caused by untested instruments, broken seals and weak inspection records
- Coach fellow inspectors and site staff with the test sequences, sampling tables and report templates used during the course

Conclusion:

Back at work, the participant presents the Weights and Measures Inspection and Market Surveillance Plan to the head of inspection, or to the compliance manager of a fuel or retail network. Management uses it to set visit frequency by outlet risk, assign test equipment, agree sampling quotas for packed goods and fix how findings move from report to follow-up action. After the first inspection cycle under the plan, the unit should compare failure rates, seal breaches, underfilled lots and closed cases with the plan and adjust the visits and sampling that found nothing.

Frequently Asked Questions FAQ:

What should participants know before a legal metrology and weights and measures inspection course?

Participants should already test, inspect or look after trade instruments or packed goods and be able to read an instrument data plate and a package label. Bringing anonymised inspection reports or dispenser test sheets helps during the walkthrough exercises.

How does legal metrology and weights and measures inspection differ from a calibration management course?

This course covers legal control of instruments used for trade: type approval, verification against maximum permissible errors, sealing, prepackage quantity checks and inspection records. Calibration management courses build uncertainty budgets, traceability chains and recalibration intervals for plant and laboratory instruments.

Why does legal metrology and weights and measures inspection use an average system for prepackages?

Filling machines vary, so checking each package against its label is impractical. The average system accepts a batch when the average content reaches the nominal quantity and few packages exceed the tolerable negative error, which protects buyers while allowing normal filling variation.

What do participants take back from the legal metrology and weights and measures inspection course?

Participants take back a Weights and Measures Inspection and Market Surveillance Plan, scale and dispenser test sequences, a prepackage sampling worksheet, a tampering checklist and an inspection report and case file template they can adapt to their own unit.
