dewpoint© professional

City & Guilds ACCREDITED

# Moisture Meter Essentials for Building Professionals

Accurate moisture measurement is critical to diagnosing building defects, assessing dampness, and preventing costly remediation errors. This one-day course, delivered live via Microsoft Teams, provides professional training in the practical use and interpretation of moisture meters within the built environment.

Designed for field-based surveyors, assessors, and remediation professionals, it combines the technical principles of moisture detection and industry best practice. Learners will explore the different types of meters, their operating principles, limitations, and correct usage for reliable data collection and reporting.

Through a structured approach to survey planning, measurement, and analysis, participants will gain the confidence to identify sources of moisture, interpret readings accurately, and apply findings in line with recognised standards and compliance requirements.

By the end of this course, learners will be able to conduct professional moisture assessments using a range of instruments, differentiate between surface and interstitial moisture, and produce evidence-based reports that support accurate building diagnostics and decision-making.

## Why Choose City & Guilds?

With over 150 years of expertise in vocational education, City & Guilds was founded to meet the needs of businesses by developing a skilled and reliable workforce. Today, it continues to evolve, creating vocational programmes that reflect the changing demands of industries in the UK and worldwide. City & Guilds accreditation is a globally recognised mark of quality and credibility, assuring learners and employers alike that training programmes are delivered to the highest professional standards.

## Course Benefits and Aims

This one-day Teams course equips field-based surveyors, assessors, and remediation professionals with the knowledge and skills to conduct accurate moisture assessments using a range of moisture meters. Participants will learn to select and use the appropriate meters, interpret readings for different materials and conditions, apply relevant British and ASTM standards. The course combines technical principles with practical application to ensure reliable, professional moisture surveying.

Key benefits:

- Confident use and interpretation of resistance, capacitance, gravimetric, and carbide moisture meters.
- Understanding of moisture, humidity, condensation, and standards for compliant building diagnostics.
- Ability to plan, execute, and report professional moisture surveys safely and accurately.

## Entry Requirements

The Dewpoint Professional Moisture Meter Essentials for Building Professionals course is open to all field-based surveyors, assessors, and professionals involved in building inspections, remediation, or property management. No prior experience with moisture meters is required, although some knowledge of building structures, damp issues, or property surveying would be beneficial.

## Assessment

Assessment of this course takes place at the end of the days training and undertaken on-line as an open-book, multiple choice assessment of 25 questions.  PASS: 80% or above, REFER: 0-79%.

## Where can you go from here?

Once you have attained Course Certification, you are encouraged to further develop your knowledge and skills by completing the Advanced courses in Mould Remediation and Water Damage Restoration, resulting in a broader and deeper knowledge of understanding.

Telephone: 01427 782 994 info@dewpointprofessional.co.uk www.dewpointprofessional.co.uk
Dewpoint Professional, River Cottage, Tillbridge Lane, Sturton by Stow, Lincoln, LN1 2DS

# Moisture Meter Essentials for Building Professionals

## Principles Course Syllabus - Delegates should be able to show and illustrate:

### Introduction to Moisture Asessments
The Role of the Professional in Moisture Inspections
Types of Inspections and the Importance of Qualifications
The Unregulated Nature of Moisture Assessment
Risks of Incorrect Assessments
Understanding Moisture Meters
Types of Meters: Resistance, Capacitance, Gravimetric, Carbide
Moisture Assessment: Purpose, Selection of Meters, Understanding Materials, and Reference Scales
Quantitative vs. Qualitative Methods

### Moisture, Humidity and Condensation
Types of Condensation: Surface, Interstitial, and Dew Formation
Dew Point and Its Significance
Relative Humidity and Moisture Content: Definitions and Implications for Buildings
Wood Moisture Equivalent (WME%)

### Standards and Compliance
British Standards for Flooring and Moisture: BS 5325, BS 8201, BS 8203, BS 8425
ASTM Standards: Overview and Relevance
ASTM F2170: Step-by-Step Concrete Moisture Testing

### Moisture Mapping and Assessment Techniques
Moisture Mapping Principles: Visual Representation, Tools, and Reporting
Professional Standards and Ethics: Competence, Ethics, Duty of Care, Contract Law, Negligence, and Fraud

### Moisture Measurement Methods
Determining Moisture Content: Water Phases, Moisture Regimes, and Measurement Limitations
Hand-Held Moisture Meters: Types, Principles, and Limitations
Capacitance-Type Meters: Principles, Use, and Interpretation
Resistance-Type Meters: Pin Meters, Science, and Application
Non-Destructive Testing: Impedance and Best Practices
Principles, Applications, and Sensor Types
Test Procedures, Safety, and Interpretation

### Infrared Thermography
Principles of Thermography: IR Spectrum, Non-Contact Measurement, Infrared Isotherms in Moisture Identification and Applications
Case Studies and Practical Examples: Mould Detection, Leak Tracing, and Insulation Issues

### Hygroscopic Salts, Sampling, and Assessment
Types and Effects of Salts: Identification, Contamination Sources, and Impact on Readings
Practical Assessment and Remediation: Symptoms, Reporting, Decontamination, and Use of Inhibitors

### Conducting Moisture Assessments
Assessment Planning and Execution: Structured Investigation, Importance, and Reporting
External and Internal Assessments: Procedures, Psychrometric Measurements, and Standards
Digital Investigation Tools: Pipe, Cable, and Stud Locator Uses
Establishing ‘Dry’ Standards: Criteria for Completion and Compliance

**Pricing*** 1 – 5 attendees on a course £220 + VAT pp
5+ attendees on a course £205 + VAT pp

**To book your place on the next course, please contact Dawn Brumpton 01427 782 994 or email info@dewpointprofessional.co.uk**

Telephone: 01427 782 994 info@dewpointprofessional.co.uk www.dewpointprofessional.co.uk
Dewpoint Professional, River Cottage, Tillbridge Lane, Sturton by Stow, Lincoln, LN1 2DS