



UKCMB
UK CENTRE FOR
MOISTURE
IN BUILDINGS



OUTLINE TRAINING PROPOSALS

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Outline Training Proposals

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Objectives

1. Disseminate knowledge, skills and good practice in the safe management of moisture in buildings
2. Provide a route for the dissemination of UKCMB's research by engagement with the construction and retrofit industries
3. Provide industry with quality assurance by trained and accredited moisture management professionals



Knowledge

Some of the knowledge to be disseminated

- Advanced building physics and modelling of moisture
- Advanced monitoring of buildings for moisture
- Development of tools for assessment, proof and communication of moisture issues in buildings
- Development of moisture guidance for homeowners
- Moisture safety testing and benchmarking
- Mould testing and benchmarking
- Ventilation testing and benchmarking
- Investigation of the relationship between health and moisture in buildings
- Investigation of the effect of wind-driven rain on exposed cavity walls
- Investigation of moisture effects in historic buildings
- BSI white paper on moisture in building, leading to updating of BS 5250
- The development of the BSI Retrofit Standards Framework



Market

By role

- People who create new buildings or improve existing buildings
- People who own, operate and maintain buildings
- Students of architecture, surveying, engineering, building and estate management

By profession

- Developers
- Project planners
- Architects
- Engineers
- Surveyors
- Project managers
- Procurement teams
- Construction managers
- Energy consultants
- Energy assessors
- Housing development managers
- Housing asset managers,
- Contractors
- Installers
- Suppliers
- Students



Products

Three initial training products from which the programme will be grown

1. Understanding and Managing Moisture Risk in Buildings
 - 1-2 day basic introductory CPD course
 - A 'taster' to create aspirations amongst participants
 - Module 1 of the two courses below
2. Moisture Safety Professional
 - Advanced course for surveyors, architects, engineers and specifiers
 - Skills and tools for promoting and ensuring moisture safe design
 - 10 days of teaching plus home study and site visits
3. Moisture Safety Site Manager
 - Equivalent course for construction site managers and supervisors
 - Skills and techniques to ensure moisture safe construction
 - 10 days of teaching plus home study and site visits



Content

Understanding and Managing Moisture Risk in Buildings

- Introduction to moisture in buildings
 - Key concerns and concepts
 - Basic building physics
 - Moisture balance or equilibrium
- A history of moisture in buildings
 - The effects of changing built form, construction, services, occupancy patterns and behaviour
- Moisture risks in new build and retrofit
 - From condensation, flooding and water escape
- Building materials and moisture
 - Theory and practice
- Ventilation and moisture control in buildings
 - Principles and practice



Content

Moisture Safety Professional | Moisture Safety Site Manager

- Building physics
 - Emphasising moisture
- Tools for assessing moisture risk
 - Including monitoring and diagnosis
- Standards for moisture in buildings
 - Including relationships with other standards and certification processes
- The effects of built form, construction and exposure
 - Including how wind-driven rain affects materials and performance
- Health and moisture in buildings
 - Using UKCMB's work with Saint-Gobain
- Mould testing and benchmarking
 - Using UKCMB's work with Polygon
- Procedures for assessing and managing moisture risk
 - During the design and construction processes
- Case studies, exercises and site visits
 - The effects of insulation and air-tightness on moisture balances
 - Content will vary depending on audience



Qualifications

- Understanding and Managing Moisture Risk in Buildings
 - Certified professional CPD credit (12 hours)
 - Embedded in CIBSE, RICS and CIOB CPD programmes
 - RIBA Advanced CPD
- Moisture Safety Professional | Moisture Safety Site Manager
 - Professional Diploma awarded by UCL or industry awarding body
 - Assessment elements included
 - Also provides certified professional CPD credit (100 hours)
 - Arrangements to be discussed with CITB



Format

- Understanding and Managing Moisture Risk in Buildings
 - Two-day face-to-face training delivered by two trainers
 - Written test at end of course
 - Offered at UCL and one other venue
 - Also presented via CPD providers and in-house (e.g. for HAs)
 - Conversion to online delivery as soon as possible
 - Licensing and embedding in broader courses to be explored
- Moisture Safety Professional | Moisture Site Safety Manager
 - Modular structures with common modules and module credits
 - Written tests and exercises for each module
 - Flexible balance of face-to-face, online and on-site modules
 - Assessment including assignments and/or examinations
 - Practical experience possibly recorded via a log-book
 - Offered in London (UCL), Cardiff and Edinburgh



Trainers

- Drawn from the UKCMB academic and professional community
 - Training team will grow as the market is developed
 - Initial cadre of 8-10 trainers proposed
- Development and first delivery team for each course
 - Teams continue to own and maintain the course material
 - Peer review by panel of trainers and academics
 - First presentation is 'shake down' and training of other trainers
- Training the trainers
 - Attendance at first presentations (free of charge)
 - Constructive comment during and after sessions
 - First deliveries mentored by development team members



Partners

We are seeking Delivery Partners for the training programme

- Trainers
 - Manage the programme content
 - Prepare and present training materials
 - Administer assessments
- Delivery partners
 - Promote and market training
 - Take bookings and payments
 - Arrange venues and catering
 - Issue joining instructions
 - Pay the trainers
 - Collate feed-back



Programme

- Understanding and Managing Moisture Risk in Buildings
 - Pilot presentation for trainers early 2018
 - Commercial presentations from mid-2018
 - Minimum three presentations per year during 2018-2019
 - Online content developed from early 2018
 - Licensing and embedding from late 2018
- Moisture Safety Professional | Moisture Safety Site Manager
 - One pilot presentation of each course at UCL during 2018-2019
 - Recruit students from *Understanding and Managing Moisture Risk in Buildings* (with exemption from introductory module)
 - Seek to license and embed modules elsewhere after 2019



Future Developments

- Additional research, methods, tools, etc. incorporated into courses as they arise
- Advanced courses on specialist subjects e.g. timber buildings, historic structures, flooding and health
- Refresher courses for those already qualified
- International partnerships



Next Steps

- Approval of training prospectus
- Prepare training business plan
- Confirm budget and programme
- Identify trainers
- Identify partners
- Elaborate course content
- Run pilot courses



Questions?

