

# CWCT Cladding training on-line

## Part 1 – 8 modules



### Module content

- 1.1 Safety**  
Manufacture Handling, Access, Safety in use, Maintenance and repair, CDM regulations and Method statements
- 1.2 Envelope types**  
Punched, Assemblies, Glazing screens, Shopfronts, Curtain wall, Slope glazing, Rainscreen, Insulated panels and Panellised.
- 1.3 Function, specification and Standards**  
Weathertightness, Wind, Energy, Condensation, Operation, Durability, Security, Acoustics, Fire, Specification and Standards.
- 1.4 Construction**  
Air barrier, Moisture barrier, Thermal barrier, Vapour barrier, Structure, Masonry walls, Timber frame walls, Rainscreen walls
- 1.5 Window types**  
Window types, Doors, Framing materials, Timber frames, Steel frames, Aluminium frames, PVCU frames, Framing terminology
- 1.6 Weathertightness and sealing**  
Requirements, Design principles – air, Design principles – water, Design principles – wind, Construction, Standards and Specification, Testing and certification, Gaskets.
- 1.7 Jointing**  
Joints, Function, Types, Open, Sealant systems
- 1.8 Glass**  
Glass, Insulating glass units, Glazing, Glazing uses, Glass breakage, Maintenance and repair of glass

Assessment for Part 1 is by on line assessment and a one hour examination at an examination centre.

The pass mark is 79%.

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Company registered in England at Baker Tilly, 25 Farringdon Street, London, EC4 4AB, number 2536548

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## Part 2 – 3 sections - revised November 2011



Following successful completion of Part 1, candidates may register for the following Part 2 options:

A, B and C	A only	B only	A and C	B and C
<b>Section 2.A</b>				
<b>Loading</b>		Loading, load types, Dead loads, Live loads, Windload, Induced loads, Impact and Load combinations		
<b>Structures – Performance</b>		Structural principles, Structural members, Stresses, Deflections, Systems, Structural materials, Compound elements, Use of design charts		
<b>Structures – Design</b>		Brackets, Connections, Composite elements, Structural conjunctions, Buckling of members, Lack of fit, Use of software		
<b>Section 2.B</b>				
<b>Thermal performance</b>		Introduction to heat transfer, Thermal resistance, U-values, Thermal bridging, Glazing, Windows, Curtain walling, Rainscreen, Cavities		
<b>Moisture</b>		Behaviour of water vapour in the air, Environmental conditions (psychrometric conditions), Surface condensation, Interstitial condensation, Vapour control and Moisture in cavities.		
<b>Ventilation and automated facades</b>		Ventilation requirements, Types of ventilation, Means of providing ventilation, Air leakage, Double facades and Automated facades.		
<b>Section 2.C</b>				
<b>Acoustics and fire</b>		Physics of sound and noise, Sound transmission, Sound and the internal environment, Glass and glazing, Whole envelope performance and Testing. Fire stopping and Fire resistant glass.		
<b>Buildability and quality</b>		Introduction, Construction methods, Co-ordination, Tolerances, Temporary conditions, Quality programmes, Inspection and testing, Method statements.		
<b>Finishes and durability</b>		Durability, Design life, Materials, Environments, Corrosion, Finishes, Quality and Maintenance		
<b>Site testing</b>		Site testing, Hose testing, Whole building air leakage, Air and water testing, Structural testing and Thermography		

Part 2 assessment is by a three hour examination for each section at an examination centre. Certificates will be awarded to successful candidates for each section. The pass mark will be 50%. Candidates achieving 70% or more will be awarded a Distinction.

CWCT is unable to offer tutorial support for Part 2 but, for those who do not have a mentor within their company and if there is sufficient demand, we may arrange support courses at CWCT.

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