

One-day BuildDesk U-value calculation & software training course

- 10:00 Introduction**
Current Building Regulations Part L (2010) requirements for U-values
- 10:45 Thermal properties an introduction**
Heat transfer mechanisms
Convection, conduction & radiation
U-values & thermal conductivities of materials
- 11:00 Thermal transmittance calculations**
Numerical methods
Simplified methods to BS EN ISO 6946 (2007)
Thermal Bridging
BR 443 (2006) Conventions for U-value calculations
- 11:15 BuildDesk U 3.4 software overview**
- 11:30 Calculating U-values for external walls**
Masonry construction
Cavity air layers & emissivity
Mortar bridging & fixings
Inhomogeneous layers e.g. Plasterboard on dabs
- 12:30 Lunch**
- 13:00 Calculating U-values for external walls -cont**
Timber frame & lightweight steel frame
Rainscreen cladding
- 13:30 Calculating U-values for roofs**
Cold pitched roofs
Warm pitched roofs
Flat roofs
- 14:00 Calculating U-value for floors**
Calculation procedures –BS EN ISO 13370 (2007)
Slab on ground floor
Suspended floors
- 14:30 Basement walls & floors**
- 15:00 Unheated spaces**
- 15:15 Condensation risk analysis to BS EN ISO 13788 (2002)**
- 15:45 Software results and reports**
- 16.15 Heat capacity/kappa value (κ) & Thermal mass calculations**
- 16:30 BBA U-value competency scheme**
- 16:45 Q&A**

CPD Certificates will be issued by email to delegates after completion of the course