Registration and coffee: 09.00
Course start: 09.30

Course Content:

Composite beams Part I
- Concepts
  - Composite action
  - Strength
  - Stiffness
  - Effective breadth
  - Shear connection
- Design Inputs
  - Steel properties
  - Concrete properties
  - Shear connectors

Composite beams Part II
- Design process
  - Section classification
  - Construction stage
  - Shear connection
  - Moment resistance
  - Vertical shear
  - Longitudinal shear
  - SLS
  - Fire
- Testing

Detailing and Good Practice
- Placing decking
- Supporting decking
- Edge detailing
- Slab penetrations
- Concreting
- Top flange protection
- Stud positioning

Composite Beam Worked Example to EC4

Composite Slabs
- Decking types
- Construction stage design
- Composite stage design
- Reinforcement
- Fire conditions
- Practical design
- Testing

Composite Slabs Worked Example to EC4