

ESE Introduction to Project Integration

Better briefing and design are the major opportunities for improving the value of construction and maintenance projects. The course introduces all the principles required to reduce project costs and increase value through the use of integrated teams established early in the design process.

The integrated team does away with the traditional route in which a Client first has “design suppliers” followed later by “construction suppliers” chosen on the basis of lowest tender price.

This course will enable delegates to develop an effective organisation structure, project process and contract strategy for delivering successful integrated projects. The course sets out the vital process and people issues to develop integrated design and construction teams incorporating the skills of designers, Client and suppliers. The course introduces delegates to an integrated design and construction process whereby the supply chain key members are involved from the beginning of the design process – they will set the underpinning cost of the project and account for at least 80% of the cost of actual construction.

Objectives

This module introduces delegates to the management of collaborative design and planning by facilitation, ensuring that all key parties to a project including Client, contractor, designers and suppliers contribute all their ideas for optimising functionality and value for money.

The module covers the following key issues.

- How to lead an integrated team and keep a constant focus on the Clients needs (based on functional specification)
- Formalising the process for design to optimise functionality and minimise cost using VM & VE
- Design facilitated by contractor with single point responsibility for project
- Suppliers and users involved in design and planning from the start
- Risks analysed and shared on rational basis

Outline Programme

- The benefits of integrated teams
- How to establish and develop an integrated design and construction team
- Procurement and incentives for integration
- Establishing an integrated design and construction process which incorporates the expertise of the supply chain in design
- Target costing
- Effective briefing and the use of performance specifications
- The use of value management and value engineering
- Risk management and mitigation in design
- Contract incentives for integrated working and risk minimisation

Course Leader Jonathan Gilmore

Employed by CRH (UK) Ltd from 1994 to 2006 Jonathan undertook a number of roles throughout the UK concentrating on design and construction. Following a period of Research and Development in 2002, Jonathan was instrumental in launching a new business which designed and constructed building systems manufactured off site across commercial, retail and education sectors. As Technical Director Jonathan held responsibility for design, construction, project management, supply chain management and procurement together with a role in strategic planning and commercial direction. Jonathan established a Client-led business with expertise in Off Site Manufacture, operating through integrated teams to deliver successful projects.

Jonathan gained an Msc in Construction Innovation from Glasgow Caledonian University; the programme focused on cutting edge principles and development of innovation in the UK Construction Industry. Jonathan has lectured in Estimating and Tendering processes and advises on Modern Methods of Construction. Jonathan joined CWC in 2006 and works as a Senior Consultant on collaborative projects with, amongst others, the London Area Procurement Network (LAPN), the East Midlands Centre for Constructing the Built Environment (EMCBE) and the NHS.