

Unit 22: Group Project (Pearson-set)

Unit code	D/615/1408
Unit type	Core
Unit level	5
Credit value	30

Introduction

While working in a team is an important skill in construction projects, collaboration goes beyond just teamwork. The success of a project relies not only on the ability of each person in a team to do their work, but on each individual's awareness of how their work relates to the work of others, how to ensure that information is shared effectively and that roles and responsibilities are clear.

Through this collaborative project-based unit, students will explore how to define roles within a collaborative team, recognising the skills (and 'skills gaps') of each member of the group. Together students will work to develop a construction project; based on their research and analysis, in response to the Pearson-set 'theme'.

Content in this unit will typically include role identification and allocation, collaborative structures, human resources management, project management, procurement, tender documentation, information/data sharing, meetings, health & safety, project costing and Building Information Modelling.

Learning Outcomes

By the end of this unit students will be able to:

1. Assess individual and group skills in order to allocate roles within a collaborative team.
2. Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling.
3. Prepare tender documentation; undertaking work appropriate to a defined role within a team.
4. Evaluate own work, and the work of others, in a collaborative team.

Essential Content

LO1 **Assess individual and group skills in order to allocate roles within a collaborative team**

Roles and responsibilities:

Skills auditing.

Belbin Team Inventory.

Myers Briggs Personality Type Indicator.

Human resources management:

Core job dimensions (skill variety, task identity, task significance, autonomy, feedback).

Job design (job rotation, job enlargement, etc.).

LO2 **Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling**

Project planning:

Setting goals.

Defining 'deliverables'.

Task definition.

Identifying risks/risk management.

Communications planning.

Resource management:

Human resources.

Physical resources.

Supply chain.

Waste management.

Project scheduling:

Scheduling tools.

Milestones.

Blocks.

LO3 Prepare tender documentation; undertaking work appropriate to a defined role within a team

Tender documentation:

Construction drawings.

Specifications.

Schedules of work.

Cost plan.

Health and safety legislation.

Building Information Modelling.

LO4 Evaluate own work, and the work of others, in a collaborative team

Reflective practice:

Schön's 'The Reflective Practitioner'

Gibbs' 'Reflective Cycle'.

Reflection vs Description.

Reflection in practice:

Project lifecycle.

Post implementation review.

Learning Outcomes and Assessment Criteria

Pass	Merit	Distinction
<p>LO1 Assess individual and group skills in order to allocate roles within a collaborative team</p>		<p>D1 Justify the allocation of roles and responsibilities within a team, recognising individual skills and ambitions vs project requirements.</p>
<p>P1 Evaluate own skills and the skills of others through skills auditing and review.</p> <p>P2 Develop role descriptions and responsibilities within a team.</p>	<p>M1 Discuss the allocation of roles within a collaborative team to meet overall project needs.</p>	
<p>LO2 Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling</p>		<p>LO2 LO3</p> <p>D2 Critically evaluate the relationships between project planning and tender documentation, highlighting ways in which tender information responds to project planning.</p>
<p>P3 Develop a project plan to ensure successful achievement of completed project.</p> <p>P4 Illustrate resource planning (both physical and human) as well as time planning.</p>	<p>M2 Interpret events and activities in a project plan in order to indicate milestones, and risks.</p>	
<p>LO3 Prepare tender documentation; undertaking work appropriate to a defined role within a team</p>		
<p>P5 Develop construction drawings and specifications.</p> <p>P6 Prepare a cost plan.</p> <p>P7 Produce a pre-construction health & safety method statement.</p>	<p>M3 Evaluate the ways in which Building Information Modelling can provide greater efficiency in collaborative preparation of tender documentation.</p>	
<p>LO4 Evaluate own work, and the work of others, in a collaborative team</p>		<p>D3 Critically evaluate the success of a project by considering individual and group working practices in relation to assigned roles and personality profiles.</p>
<p>P8 Undertake a continual review of their own work, recording this throughout the project.</p> <p>P9 Evaluate their own working practices in relation to that of other members of the team, identifying areas of good practice.</p>	<p>M4 Evaluate their own personality profile in relation to your working practices.</p>	

Recommended Resources

Textbooks

- BALDWIN, A. (2014) *Handbook for Construction Planning and Scheduling*, Wiley-Blackwell: London.
- BELBIN, M. (2010) *Team Roles at Work*. Taylor & Francis.
- BENNETT, J. and PEACE, S. (2006) *Partnering in Construction: A Code of Practice for Strategic Collaborative Working*. Burlington: Butterworth-Heinemann.
- BOUCLAGHEM, D. (2011) *Collaborative Working in Construction*. Abingdon: SPON Press.
- CIOB (2010) *Guide to Good Practice in the Management of Time in Complex Projects*. London: Chartered Institute of Building.
- DAINTY, A. and LOOSEMORE, M. (ed.) (2012) *Human Resource Management in Construction: Critical Perspectives*. Abingdon: Routledge.
- KELLY, J. and MALE, S. (1992) *Value Management in Design and Construction: The Economic Management of Project*. London: Taylor & Francis.
- MYERS, S. and CHILDS, R. (2016) *Understanding Team Roles*. Nielson Book Services Limited.
- POTTS, K. and ANKRAH, N. (2014) *Construction Cost Management: Learning from Case Studies*. London: Routledge.
- WYATT, D. (2007) *Construction Specifications: Principles and Applications*. New York: Delmar.

Links

This unit links to the following related units:

Unit 1: Individual Project

Unit 4: Construction Practice & Management

Unit 5: Legal & Statutory Responsibilities in Construction

Unit 12: Financial Management and Business Practices in Construction

Unit 24: Project Management

Unit 38: Personal Professional Development