Aim

This unit provides learners with the opportunity to develop an understanding of the principles and application of project management in the construction and built environment sector.

Unit abstract

This unit enables learners to demonstrate their understanding of project management and the role of project managers. Learners will have the opportunity to understand how the client’s objectives affect the project and how these objectives can be achieved through successful project management. Learners will also understand the different types of project management and how they impact on and add value to construction projects.

Learning outcomes

On successful completion of this unit a learner will:

1. Understand the practice of project management
2. Understand the competencies and training required of project managers
3. Understand the duties and responsibilities of project managers
4. Understand how client objectives can be achieved through project management
5. Understand how project management adds value to a project.
Unit content

1 Understand the practice of project management

*Project management*: definition; historical developments; advantages and disadvantages in practice; review of current literature; research information

*Role of project manager*: development of project plan; management of project eg project stakeholders, project team, project risk, project schedule, project budget, any issues and conflicts that may arise

2 Understand the competencies and training required of project managers

*Key competencies*: managerial skills; technical knowledge and abilities; personality and psychological factors; leadership; delegation; negotiation; decision making and clarity of thinking; education and training for specific projects

*Education training and standards*: job requirements; person profile; occupational standards; continuing professional development

3 Understand the duties and responsibilities of project managers

*Duties and responsibilities*: understanding the client brief; appointing the design team; working with the production team; reports and recommendations

*Internal teams and external consultants*: contractual implications; relationships; roles and responsibilities

*Contractual relationships*: coordination and control; project management; responsibilities eg duties, authority, accountability, fees

4 Understand how client objectives can be achieved through project management

*Client objectives*: on time; within budget; high performance; quality outcome

*Advantages of project management*: time savings; higher-level of management control; cost predictions; better control of risks; improved communication; better information management; value for money; higher quality eg improving standards, achieving quality in building, getting it right first time, best practice

5 Understand how project management adds value to a project

*Changes in priorities*: factors that affect how project management can manage a changing industry; change management in the construction and built environment sector; culture of best practice in construction, Respect for People; adding value

*Performance indicators*: benchmarking against other systems and practices; use of key performance indicators (KPIs); best practice projects

*Adding value*: doing more for less eg reduced costs, improved affordability, enhanced value, improved productivity, reduced waste and defects
## Learning outcomes and assessment criteria

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<tr>
<th>Learning outcomes</th>
<th>Assessment criteria for pass</th>
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<td><strong>On successful completion of this unit a learner will:</strong></td>
<td><strong>The learner can:</strong></td>
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| **LO1** Understand the practice of project management | 1.1 describe project management practices in the construction and built environment sector  
1.2 evaluate the role of project managers in the construction and built environment sector |
| **LO2** Understand the competencies and training required of project managers | 2.1 evaluate the key characteristics of effective project managers  
2.2 explain the type of education, training and occupational standards required of project managers |
| **LO3** Understand the duties and responsibilities of project managers | 3.1 explain the duties and responsibilities of project managers  
3.2 compare the contractual implications of using external consultants or internal teams for project management  
3.3 discuss the relationship of project managers with the design and production teams |
| **LO4** Understand how client objectives can be achieved through project management | 4.1 explain the role of the client in the construction process  
4.2 explain the advantages to clients of using project management to meet their aims and objectives  
4.3 evaluate how quality and standards are improved in the construction and built environment sector |
| **LO5** Understand how project management adds value to a project | 5.1 evaluate changes to the priorities of the construction and built environment sector  
5.2 explain the use of best practice in project management to develop key performance indicators (KPIs)  
5.3 evaluate how project managers are able to add value to the construction process |
Guidance

Links
This unit links with other Edexcel BTEC HN Construction and the Built Environment units, for example:

- Unit 4: Management Principles and Application for Construction and the Built Environment
- Unit 9: Law and Contract for Construction and the Built Environment
- Unit 13: Environmental Impact of Construction
- Unit 14: Economics for Construction and the Built Environment
- Unit 15: Production Management for Construction
- Unit 57: Project Management for Building Services Engineering.

The content of this unit has been designed and mapped against the current CIC National Occupational Standards and the current NVQs at levels 4 and 5. Completion of the learning outcomes will contribute knowledge, understanding and skills towards the evidence requirements of the NVQs.

- See Annexe B for summary of mapping information to NVQs.

This unit has also been mapped to illustrate the links to the NQF units.

- See Annexe D for summary of mapping information to NQF units.

Essential requirements
It is important that learners have access to current information from the sector regarding the use and development of project management in practice.

It is essential that a culture of health and safety is embedded in all the units to ensure that the learners understand the importance and relevance of health and safety issues. Therefore there should be clearly signposted aspects of current legislation and health, safety and welfare implications throughout the delivery and assessment of this unit.

Employer engagement and vocational contexts
Tutors should organise site visits as part of delivery for this unit. To ensure site visits are successful tutors should outline the aims and objectives of the visits, conduct preparatory briefings and encourage learners to review the site visits once completed. Tutors should organise presentations by visiting speakers, for example contractors, consultants, architects and/or management contractors. Tutors should use site production simulations and real-life case studies for part of the assessment for this unit.