

# LTP – KS4 Construction

This is a Level 1 qualification which will enable pupils to progress into further learning within the construction sector. Pupils will learn practical skills that will enable them to gain sufficient knowledge, for further studies in construction at Level 2 or above. Pupils will learn to demonstrate their ability to complete tasks to given specifications and increasingly higher standards within the construction industry. Pupils will be offered a qualification at Award, Certificate or Diploma Level. Pupils will be encouraged to take ownership of their own learning. They will be actively involved in the planning and review process and will ultimately set their own targets for success. Pupils will develop fine motor skill, and learn to use a variety of measuring instruments and tools to construct brick and block walls to increasing levels of accuracy. At KS4 they will undertake a number of assignments at pass /merit level and gain sufficient competency to gain distinction levels in KS5. Pupils will learn to work in teams and take personal responsibility for their own and others health and safety. This will include how to handle and employ tools and equipment, follow rules and regulations specific to the construction industry. Pupils will also learn to use mathematical knowledge in practical “real World” situations this will include, measurement, ratio and geometry. Pupils will also gain a technical vocabulary which they will use on a daily basis and in further studies.

## Year 10

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Unit 101 Introduction to Health and Safety</b></p> <p>Understand:</p> <ul style="list-style-type: none"> <li>• Why health and safety is important</li> <li>• The role of the Health and Safety Executive</li> <li>• Health and safety regulations</li> <li>• Responsibility for health and safety</li> <li>• Common causes of accidents in the construction industry – hazards and risks</li> <li>• The risk assessment process</li> <li>• Health and safety sign categories</li> <li>• How to identify safety signs</li> <li>• How to identify COSHH signs</li> <li>• Types of personal protective equipment (PPE)</li> <li>• The purpose of personal protective equipment.</li> </ul>	<p><b>Unit 102 Introduction to the Construction Industry</b></p> <p>Understand:</p> <ul style="list-style-type: none"> <li>• The types of construction</li> <li>• Sustainable construction</li> <li>• How to identify design features</li> <li>• Energy saving materials used in the construction industry</li> <li>• Construction industry activities</li> <li>• Job opportunities in the construction industry</li> </ul>	<p><b>Unit 005 Constructing Half Brick Wall</b></p> <ul style="list-style-type: none"> <li>• Identify the Personal Protective Equipment (PPE) appropriate to building half brick thick walls</li> <li>• Identify the materials required to build half brick thick walls</li> <li>• Identify the tools and equipment required to build half brick thick walls</li> <li>• State the number of bricks required to build a 1m<sup>2</sup> brick walls.</li> <li>• Identify the hand tools used to perform brickwork and block work tasks.</li> <li>• Select the hand tools required to perform brickwork and blockwork tasks</li> <li>• Select the hand tools required to perform brickwork and blockwork tasks</li> </ul>	<p><b>Unit 119 Constructing Half Brick Return Wall</b></p> <p>Know how to set out and build half brick return corners in stretcher bond. The learner can:</p> <ul style="list-style-type: none"> <li>• Identify the Personal Protective Equipment (PPE) appropriate to building half brick return corners</li> <li>• Identify the materials required to build half brick thick return corners in stretcher bond</li> <li>• Identify the tools and equipment required to build half brick thick return corners in stretcher bond.</li> <li>• Select materials required to perform brickwork and blockwork tasks</li> <li>• Identify the PPE and safe working practices used to perform brickwork and block work tasks</li> <li>• Explain the selection of PPE and safe working practices to be used in given brickwork and blockwork tasks.</li> </ul>	<p><b>Unit 121 Constructing One Brick Walling</b></p> <p>Know how to prepare, set out and build one brick walls in English Bond. The learner can:</p> <ul style="list-style-type: none"> <li>• Identify the Personal Protective Equipment (PPE) appropriate to building one brick thick walls</li> <li>• Identify the materials required to build one brick thick walls</li> <li>• Identify the tools and equipment required to build one brick thick walls</li> <li>• State the number of bricks required to build a 1m<sup>2</sup> wall</li> <li>• State the method to set out and build one brick thick walls in English Bond.</li> <li>• Produce a gauge rod for setting out brickwork</li> <li>• Identify common bonding arrangements used in the construction of solid brick and block walls</li> </ul>	<p><b>Unit 118 Constructing Block Walling</b></p> <ul style="list-style-type: none"> <li>• Know how to prepare for, set out and build 100mm thick lightweight walls.</li> <li>• Identify the Personal Protective Equipment (PPE) appropriate to building 100mm thick lightweight block walls</li> <li>• Identify the materials required to build 100mm thick lightweight block walls</li> <li>• Identify the tools and equipment required to build 100mm lightweight block walls</li> <li>• Produce brick and block walls to a given specification</li> <li>• Justify the safe use of hand tools and materials safely to minimise, health, safety and welfare risks.</li> </ul>

**Year 11**

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Unit 120 Constructing Cavity Walls in Brickwork and Block Work</b></p> <p>Know how to set out and build cavity walls. The learner can:</p> <ul style="list-style-type: none"> <li>• Identify the Personal Protective Equipment (PPE) appropriate to building cavity walls</li> <li>• Identify the materials required to build cavity walls</li> <li>• Identify the tools and equipment required to build cavity walls</li> <li>• State the purpose of cavity walling</li> <li>• State the purpose of wall ties used in cavity walling</li> <li>• State the purpose of a damp proof course</li> <li>• Identify the hand tools used to perform brickwork and block work tasks</li> <li>• Select the hand tools required to perform brickwork and blockwork tasks</li> <li>• Select the hand tools required to perform brickwork and blockwork tasks</li> <li>• Select materials required to perform brickwork and blockwork tasks</li> <li>• Identify the PPE and safe working practices used to perform brickwork and block work tasks</li> <li>• Explain the selection of PPE and safe working practices to be used in given brickwork and blockwork tasks</li> </ul>	<p><b>Unit 124 Mixing and Using Concrete</b></p> <p>Know how to prepare and mix concrete to be used in moulds. The learner can:</p> <ul style="list-style-type: none"> <li>• Identify Personal Protective Equipment (PPE) appropriate to mixing concrete to be used in moulds</li> <li>• Identify materials required to mix concrete to be used in moulds</li> <li>• Identify tools and equipment required to mix concrete to be used in moulds</li> <li>• State methods to prepare a mould to receive a concrete.</li> </ul>	<p><b>Unit 122 Laying Block Paving</b></p> <p>Know how to prepare for and lay areas of block paving. The learner can:</p> <ul style="list-style-type: none"> <li>• Identify Personal Protective Equipment (PPE) appropriate to preparing areas to receive block paving</li> <li>• Identify materials required to prepare areas to receive block paving</li> <li>• Identify tools and equipment required to prepare areas to receive block paving</li> <li>• State the basic patterns used to lay block pavours</li> <li>• State methods to set out and level areas to receive areas of block paving</li> <li>• State methods used to cut, lay and finish block paving.</li> </ul>	<p><b>CSCS - Cards</b></p> <p>Learners will undertake a prescribed scheme of work to equip them with the skills to pass City &amp; Guilds Level 1 in Health and Safety</p>	<p><b>Preparation for next steps</b></p> <p>Learners will compile a CV pertaining to the construction industry and apply for local colleges, local further educations and apprenticeships in the construction industry</p>	