

Goldwyn 6th Form – Construction Subject Statement and Long Term Plan



Construction – Statement of Intent

Vocational courses can be a highly motivating way of engaging students who have a preference for 'hands on' learning, enabling them to develop work-ready, practical skills and improving their confidence and interest. Goldwyn Construction Department offers a range of City & Guilds qualifications which give students the opportunity to begin to learn a trade, preparing them for further training and employment within the Construction Industry, as well as developing their life skills.

Implementation

The Level 1 Qualification in Construction Skills is designed for those with no previous experience. Students earn credits as they develop their knowledge and practical skills through introductory units in bricklaying, carpentry, plumbing and electrics.

Students who decide that they wish to further their skills and pursue a career in construction can continue their studies and learn more about the industry, including the basic principles and types of information used in building design and construction, health, safety and environmental issues faced on construction sites, and how to communicate with others on the job. They can choose between pathways in bricklaying or carpentry.

Through a combination of practical and theory sessions, students are taught the technical knowledge, understanding and skills in their chosen pathway:

Bricklaying - Students can learn practical skills specific to a career in the brick and mortar trade, including setting out, bricklaying, blocklaying, building cavity walling, building solid walling, using isolated and attached piers, interpreting working drawings to set out masonry structures and constructing cavity walling to form masonry structures.

Carpentry - Students can learn practical skills specific to a career in the wood and carpentry trade, including maintaining and using hand tools, preparing and using portable power tools, producing woodworking joints, carrying out first fix flooring and roofing, carrying out first fix frames, partitions and stairs, carrying out second fixing operations, carrying out carpentry maintenance and setting up and operating a circular saw.

Health & Safety - The Construction Skills Certification Scheme (CSCS Card) is a requirement for those wishing to work on a construction site. All students can work towards achieving the City & Guilds Level 1 Award in Health & Safety in the Construction Environment as part of their chosen course, before going on to sit the CSCS Test, preparing them for further training, an apprenticeship or employment in the construction industry.

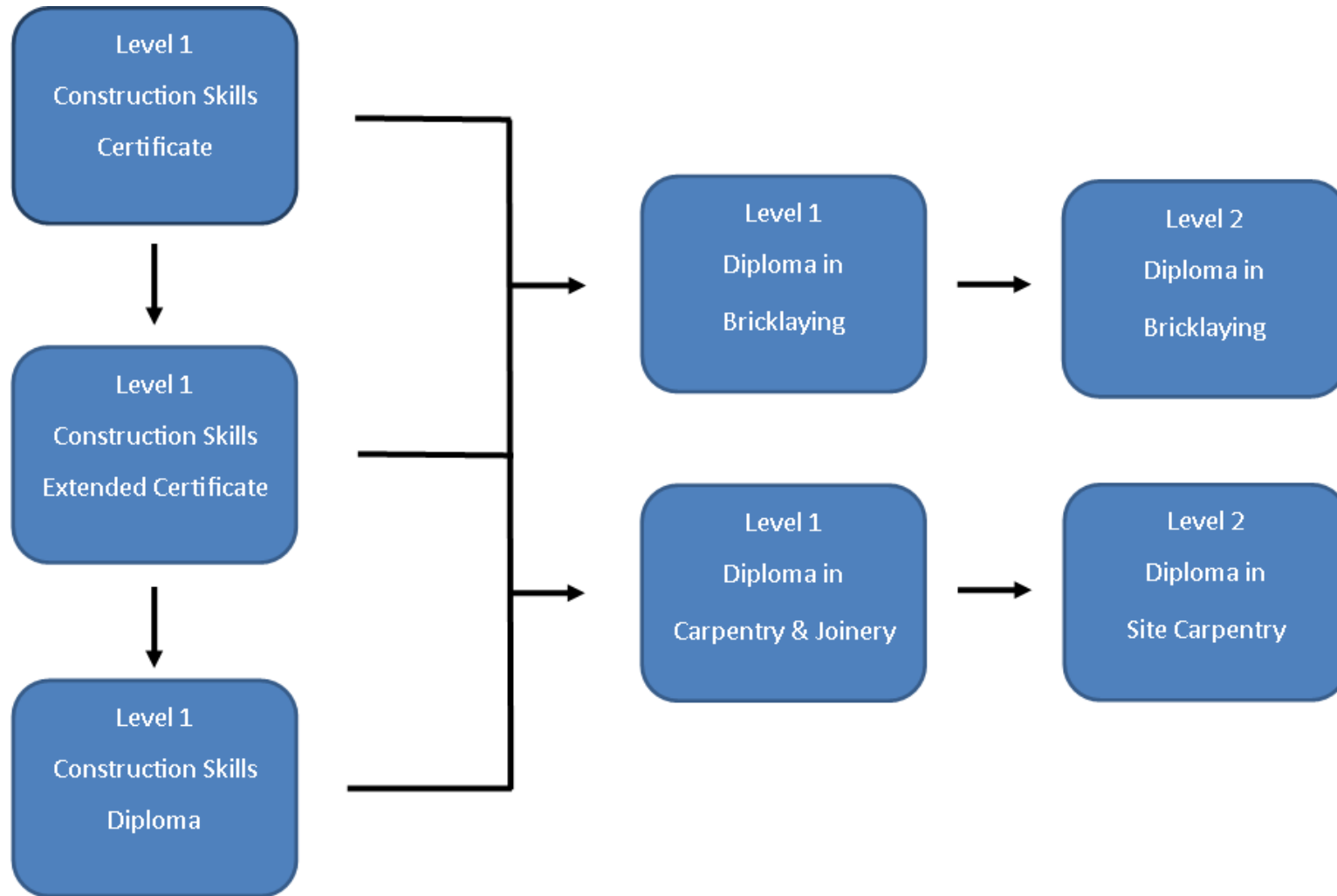
Assessment - All qualifications are assessed through portfolio building, practical assessments and online tests, with the number of units depending on which qualification the student is studying.

Impact

Students will have:

- achieved relevant qualifications and developed the knowledge and skills they need for further training, an apprenticeship or employment.
- developed their confidence in learning and their motivation to achieve.
- a better understanding of the value of literacy and numeracy in the work place and be more able to apply skills to vocational related activities.
- developed their self-regulation, communication and social skills so that they are better prepared for working life.

Pathways & Progression



City & Guilds Level 1 in Construction Skills: Long Term Plan

Term	1	2	3	4	5	6
Theory	<p>Unit 101: Introduction to Health & Safety in Construction</p> <p>Induction, health & safety & prior learning - initial assessment for chosen trade (bricklaying, carpentry, electrical or plumbing). Tool & material identification. Unit paperwork for assessment & assessment processes (including IQA & appeals procedure).</p>	<p>Knowledge work packs for selected bricklaying, carpentry, electrical or plumbing unit(s). Assessment tool sheets & description of work undertaken (this could be between 1 & 4 units, starting with Entry Level & progressing to Level 1).</p>	<p>Knowledge work packs for selected bricklaying, carpentry, electrical or plumbing unit(s). Assessment tool sheets & description of work undertaken. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Knowledge work packs for selected bricklaying, carpentry, electrical or plumbing unit(s). Assessment tool sheets & description of work undertaken. Understanding links between skills & knowledge - applying to new learning.</p>	<p>Knowledge work packs for selected bricklaying, carpentry, electrical or plumbing unit(s). Assessment tool sheets & description of work undertaken. Evaluating relevance of skills & knowledge in new learning.</p>	<p>Knowledge work packs for selected bricklaying, carpentry, electrical or plumbing unit(s). Assessment tool sheets & description of work undertaken. Combining all previous learning to advance skills & knowledge. Increased complexity of tasks to show understanding & competence.</p>
Practical	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>	<p>Practice & training in chosen trade / unit(s) for bricklaying, carpentry, electrical or plumbing. Learning tool identification, tool skills & safety relating to chosen unit, starting with Entry Level progressing to Level 1. Agreed assessment process when ready.</p>

Mandatory Units:

Health & Safety:

Unit 101: Introduction to Health & Safety in Construction

Optional Units:

Bricklaying:

Unit 005: Constructing Half Brick Walling

Unit 118: Constructing Block Walling

Unit 119: Constructing Half Brick Return Corner

Unit 120: Constructing Cavity Walls in Brickwork & Blockwork

Unit 121: Constructing One Brick Walling

Plumbing:

Unit 009: Removing & Refitting Water-filled Radiators

Unit 010: Working with Non-Manipulative Fittings

Unit 128: Bending & Jointing Copper Pipes

Unit 129: Connecting Pipes & Fittings to Appliances

Unit 131: Installing Rain Water Goods

Carpentry & Joinery:

Unit 001: Constructing Halving Joints

Unit 002: Constructing Housing Joints

Unit 103: Constructing Through Mortice & Tenon Joints

Unit 104: Constructing Angled Halving Joints

Unit 106: Constructing Hunched Mortice & Tenon Joints

Unit 107: Constructing Stub Mortice & Tenon Joints

Unit 108: Fixing Architraves & Skirting

Unit 109: Constructing & Fixing Hatch Linings

Unit 110: Fitting Lock & Latches

Electrical:

Unit 011: Connecting Flex to Common Apparatus

Unit 136: Installing One Way Lighting Circuits

Unit 137: Installing Two Way Lighting Circuits

Unit 133: Assembling 13 Amp Switched Sockets Wired in Ring Final Circuit

General:

Unit 102: Introduction to the Construction Industry

City & Guilds Level 1 Diploma in Bricklaying: Long Term Plan

Term	1	2	3	4	5	6
Theory	<p>Unit 201/601: Health, Safety & Welfare in Construction (Terms 1 to 6)</p> <p>Induction, health & safety & prior learning - initial assessment for bricklaying. Tool & material identification. Completion of unit paperwork for assessments & assessment processes (including IQA & appeals procedure).</p>	<p>Unit 101/501: Principles of Building Construction, Information & Communication (Terms 1 to 6)</p> <p>Understanding a range of building materials used within the construction industry & their suitability for the construction of modern buildings. Basic concepts of effective communication.</p>	<p>Unit 104: Carrying Out Bricklaying Activities</p> <p>Brick walling - setting out, safe working practice, cutting bricks to size, standard panel returns & combinations of both, leading to assessment of panel with return both ends. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Unit 103: Carrying Out Blocklaying Activities</p> <p>Block walling - setting out, safe working practice, cutting blocks to size & standard block walling. Progressing to returns & returns & tee junctions. Understanding links between skills & knowledge - applying to new learning.</p>	<p>Unit 102: Contribute to Setting Out & Building of Masonry Structures to Damp Proof Course</p> <p>Setting out basic masonry structures, 3-4-5 method, datums checking measurements & diagonals for square Building structures to damp proof course. Evaluating relevance of skills & knowledge in new learning.</p>	<p>Unit 105: Cavity Walling</p> <p>Cavity walling - setting out, safe working practice, positioning of cavity ties & insulation to industry standards. Combining all previous learning to advance skills & knowledge. Increased complexity of tasks to show understanding & competence.</p>
Practical	<p>Unit 104: Carrying Out Bricklaying Activities</p> <p>Hand tool skills, level plumb & gauge, setting up safe working area, working with brick & mortar. Revisiting prior learning & initial assessment. Pyramid, small panel, return & large panel.</p>	<p>Unit 104: Carrying Out Bricklaying Activities</p> <p>Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process & tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.</p>	<p>Unit 103: Carrying Out Blocklaying Activities</p> <p>Hand tool skills, level plumb & gauge, face plane, profiles, using stop ends, racking back & infill. Assessment process & tolerances introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.</p>	<p>Unit 103: Carrying Out Blocklaying Activities</p> <p>Hand tool skills, level plumb & gauge, face plane, profiles, speed of laying using stop ends, racking back & infill. Assessment process & tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.</p>	<p>Unit 102: Contribute to Setting Out & Building of Masonry Structures to Damp Proof Course</p> <p>Hand tool skills, level plumb & gauge, face plane, profiles, speed of laying using stop ends, racking back & infill. Assessment process & tolerances, using profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.</p>	<p>Unit 105: Cavity Walling</p> <p>Hand tool skills, level plumb & gauge, face plane, profiles, speed of laying using stop ends, racking back & infill. Assessment process & tolerances, using profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.</p>

City & Guilds Level 2 Diploma in Bricklaying: Long Term Plan

Term	1	2	3	4	5	6
Theory	<p>Unit 202/602: Principles of Building Construction, Information & Communication (Terms 1 to 6)</p> <p>Induction, health & safety & revision of prior learning. Tool & material identification. Completion of unit paperwork for assessments & assessment processes (including IQA & appeals procedure). Understanding a range of building materials used within the construction industry & their suitability for the construction of modern buildings. Basic concepts of effective communication.</p>	<p>Unit 202/602: Principles of Building Construction, Information & Communication (Terms 1 to 6)</p> <p>Understanding a range of building materials used within the construction industry & their suitability to the construction of modern buildings. Thin joint block work & the processes for modern method of construction.</p>	<p>Unit 205: Interpreting Working Drawings to Set Out Masonry Cladding</p> <p>Setting out basic masonry structures, 3-4-5 method, datums, checking measurements & diagonals for square.</p> <p>Unit 203: Producing Thin Joint Masonry and Masonry Cladding</p> <p>English & Flemish bonds. Isolated & attached piers. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Unit 205: Interpreting Working Drawings to Set Out Masonry Cladding</p> <p>Setting out basic masonry structures, 3-4-5 method, datums, checking measurements & diagonals for square.</p> <p>Unit 204: Building Solid Walling, Isolated & Attached Piers</p> <p>Setting out to build from datum & TBM. Understanding links between skills & knowledge - applying to new learning.</p>	<p>Unit 206: Cavity Walling</p> <p>Cavity walling - opening & using lintels. Importance of setting out & reading drawings. Weep-holes & preventing damp getting into & out of cavity walling. Evaluating relevance of skills & knowledge in new learning.</p>	<p>Unit 206: Cavity Walling</p> <p>Recap & complete any outstanding work & revise for online test(s), if required. Combining all previous learning to advance skills & knowledge. Increased complexity of tasks to show understanding & competence.</p>

Term	1	2	3	4	5	6
Practical	Unit 203: Producing Thin Joint Masonry and Masonry Cladding Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.	Unit 203: Producing Thin Joint Masonry and Masonry Cladding Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.	Unit 204: Building Solid Walling, Isolated & Attached Piers Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.	Unit 204: Building Solid Walling, Isolated & Attached Piers Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.	Unit 206: Cavity Walling Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.	Unit 206: Cavity Walling Hand tool skills, level plumb & gauge, face plane panel using stop ends, racking back & infill. Assessment process and tolerances, introducing profiles. Scaffolding - learning & training ready for assessment. Gaining speed of laying process to meet assessment needs.

City & Guilds Level 1 Diploma in Carpentry & Joinery: Long Term Plan

Term	1	2	3	4	5	6
Theory	<p>Unit 201/601: Health, Safety & Welfare in Construction (Terms 1 to 6)</p> <p>Induction, health & safety & prior learning – initial assessment for carpentry & joinery. Tools & material identification. Completion of unit paperwork for assessments & assessment processes (including IQA & appeals procedure).</p>	<p>Unit 101/501: Principles of Building Construction, Information & Communication (Terms 1 to 6)</p> <p>Hand tool sharpening - chisels & plan blades. Understanding a range of building materials used within the construction industry & their suitability for the construction of modern buildings. Basic concepts of effective communication.</p>	<p>Unit 113: Maintain & Use Carpentry & Joinery Hand Tools</p> <p>Hand saws & planes / rebate planes - use of tools & their limitations. Tool maintenance & advancing skills to complete tasks. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Unit 114: Prepare & Use Portable Carpentry & Joinery Power Tools</p> <p>Power tools - safety checks & using safely. Understanding links between skills & knowledge - applying to new learning.</p>	<p>Unit 115: Produce Woodworking Joints</p> <p>Rod drawings - how to draw & use, leading to assessment of panel with return both ends. Evaluating relevance of skills & knowledge in new learning.</p>	<p>Unit 115: Produce Woodworking Joints</p> <p>Recap & complete any outstanding work, if required. Combining all previous learning to advance skills & knowledge. Increased complexity of tasks to show understanding & competence.</p>
Practical	<p>Unit 113: Maintain & Use Carpentry & Joinery Hand Tools</p> <p>Hand tool skills - prior learning & initial assessment. Marking out measurements & setting up marking equipment.</p>	<p>Unit 113: Maintain & Use Carpentry & Joinery Hand Tools</p> <p>Hand tool skills - maintenance of tooling. Different methods of sharpening 7the angles used to hone & sharpen a range of tools.</p>	<p>Unit 113: Maintain & Use Carpentry & Joinery Hand Tools</p> <p>Hand tool skills - using planes, chisels & hand saws in variety of practical tasks. Tolerances, measuring & cutting methods to industry standards.</p>	<p>Unit 114: Prepare & Use Portable Carpentry & Joinery Power Tools</p> <p>Setting up power tools – using in a range of practical tasks. Safe voltages & the use of RCD for protection - 110 volt tooling.</p>	<p>Unit 115: Produce Woodworking Joints</p> <p>Producing a rod drawing. Practicing joints & hand tool skills. Technical drawing to produce exact 1-1 drawing for final assessment.</p>	<p>Unit 115: Produce Woodworking Joints</p> <p>Performing carpentry joints to industry standards. Working from rod drawing to produce final assessment work.</p>

City & Guilds Level 2 Diploma in Site Carpentry: Long Term Plan

Term	1	2	3	4	5	6
Theory	<p>Unit 202/602: Principles of Building Construction, Information & Communication</p> <p>Induction, health and safety & prior learning - initial assessment for site carpentry. Tool & material identification. Completion of unit paperwork for assessments & assessment processes (including IQA & appeals procedure). Understanding a range of building materials used within the construction industry & their suitability for the construction of modern buildings. Basic concepts of effective communication.</p>	<p>Unit 207: Carry Out First Fix Flooring & Roofing</p> <p>First fix roofing & flooring - materials used, method of construction, PPE requirements & how to complete risk assessments. Modern & traditional methods of constructing flooring & roofing - terminology. Tool maintenance & advancing skills to complete tasks. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Unit 208: Carry Out First Fix Frames, Partitions & Stairs</p> <p>Unit 209: Carry Out Second Fix Operations</p> <p>Tool maintenance & advancing skills to complete tasks. Kitchen installation - second fix. Recognising and recalling relevant skills & knowledge from prior learning.</p>	<p>Unit 210: Carry Out Carpentry Maintenance</p> <p>Tool maintenance & advancing skills to complete tasks. Repairing staircases & windows. Understanding links between skills & knowledge - applying to new learning.</p>	<p>Unit 211: Set Out & Operate a Circular Saw</p> <p>Power tool & setting up - safety checks & using safely. Following regulations & specifications. Evaluating relevance of skills & knowledge in new learning.</p>	<p>Unit 210: Carry Out Carpentry Maintenance</p> <p>Recap & complete any outstanding work, if required. Combining all previous learning to advance skills & knowledge. Increased complexity of tasks to show understanding & competence.</p>

Term	1	2	3	4	5	6
Practical	Unit 207: Carry Out First Fix Flooring & Roofing Materials used and method of construction. PPE requirements & completing risk assessments.	Unit 207: Carry Out First Fix Flooring & Roofing Verge & eaves, wall plates, trusses, supports, gable ladders eaves, fascia & soffits. Flooring joists, hangers, strutting & floor coverings.	Unit 208: Carry Out First Fix Frames, Partitions & Stairs Unit 209: Carry Out Second Fix Operations Partition work - stud walling, sole plat headers & openings. Door linings & fitting doors. Installing kitchens.	Unit 210: Carry Out Carpentry Maintenance Repairing a stair case - string & newel post. Repairing / replacing sash cord from sash window - repair or replace damaged components.	Unit 211: Set Out & Operate a Circular Saw Regulations, health & safety in the use of table saws. Setting up correctly to produce different widths & angle cuts.	Unit 210: Carry Out Carpentry Maintenance Installation of guttering & downpipe.