



## **Construction Unit Overview Year 11**

Students have missed a substantial amount of practical work during the summer term and will be given the opportunity to catch up during lesson time. To begin, there will be a focus on Electrical systems, and it is key that they complete their Unit 1 mock exam. Those students that have not managed to complete theory work will be given targeted support throughout the year and further opportunities to catch up will be offered to all students.

What are we learning?	What knowledge, understanding and skills will we gain?		What does mastery look like?	How does this build on prior learning?	What additional resources are available?
Unit 3 – Planning Construction Projects	Knowledge LO2 Know preparation requirements for construction tasks LO1 Know job roles involved in realising construction and built environment projects Understanding LO3 Understand how to minimise risks to health and safety LO2 Understand risks to health and safety in	Skills AC1.1Describe activities of those involved in construction projects AC1.2Describe responsibilities of those involved in construction projects AC1.3Describe outputs of those involved in realising construction projects AC2.1Describe processes used in built environment development projects AC2.2Calculate resources to meet requirements for built environment development projects AC2.3Assess potential effect of factors on project success AC2.4Interpret sources of information AC3.1Sequence processes to be followed AC3.2Apportion time to processes	Full understanding of: Those involved ·Client's team (client, architect, engineer, quantity surveyor, project manager, designer)·Contractor's team (builder/site engineer, site supervisor, safety officer, tradespersons, specialist subcontractors)·Statutory personnel (building inspector, town planner, public health inspector)·General (administrator, finance officer, public liaison officer, purchasing/procurement officer, catering, security)  Construction projects ·Refurbishments ·Extensions  Processes ·Planning (design, project planning, procurement) ·Construction (secure site, site clearance, substructure, super-structure) ·Handover to client (commissioning, handover) ·Maintenance Calculate ·Area ·Volume ·Percentages ·Scaling ·Best value ·Tolerances ·VAT ·Tender price Resources ·Plant ·Labour ·Materials Factors ·Internal e.g. lack of qualified and certified key personnel, sourcing of finance, security ·External e.g. penalty clauses, weather conditions Sources of information ·Drawings ·Catalogues ·Spreadsheets ·Suppliers material lists ·Specifications Processes ·Planning ·Construction ·Handover	Recap all year 10 units covered for unit 3.  Use experience gained in Unit 2 CA to develop exam technique.  Focus on Electrical installations.	Covid 19 – Lessons 1-12 full interactive online lesson pack.





	different	AC3.3Set project tolerances		
	situations	AC1.1 Interpret technical	Project tolerances ·Time ·Cost	
	LO2Understand	sources of information		
	how built	AC1.2Plan sequence of work	Accurately interprets required technical information from	
	environment	to meet requirements of	more than one type of source	
	development	sources of information		
	projects are	AC2.1Identify resources	Plans a detailed sequence of work which meets the	
	realised	required to complete	requirements of the sources of information. The plan is	
	Skills	construction tasks	mainly logical, showing knowledge of the processes to	
	LO1 Be able to	AC2.2Calculatematerials	be followed and appropriate timescales.	
	interpret	required to complete	Comprehensively identifies and anasifies all resources	
Unit 2 –	technical	construction tasks AC2.3 Set success criteria for	Comprehensively identifies and specifies all resources	
Developing	information	completion of construction	required to complete construction tasks	
construction	LO3 Be able to	tasks	Accurately calculates all materials required to complete	
projects	use	AC2.4 Prepare for construction	the construction tasks using standard conventions and	
projecto	construction	tasks	processes to complete all calculations	
	processes in	AC3.1Apply techniques in	'	
	completion of	completion of construction	Identifies the success criteria for the completion of	
	construction	tasks	construction tasks from explicit and implicit information	
	tasks	AC3.2Apply health and safety	provided in the brief	
	LO3 Be able to	practices in completion of		
	plan built	construction tasks	All appropriate preparation tasks are completed	
	environment	AC3.3Evaluatequality of	effectively in a logical sequence	
	development	construction tasks	A ronge of techniques are used fluently and consistently	
	projects		A range of techniques are used fluently and consistently in completion of all three specified tasks. All outcomes	
	projects		are within specification tolerances	
			are within specification tolerances	
			Applies health and safety practices in completion of	
			construction tasks independently	
			•	
			Evaluates the quality of construction tasks completed.	
			Judgements are reasoned and equal consideration given	
			to specification and success criteria	





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Unit 3 – Planning Construction Projects	Knowledge LO2 Know preparation requirements for construction tasks  LO1Know job roles involved in realising construction and built environment projects  Understanding LO3 Understand how to minimise risks to health and safety  LO2Understand risks to health and safety in different situations  LO2Understand how built environment development projects are realised	Skills AC1.1Describe activities of those involved in construction projects AC1.2Describe responsibilities of those involved in construction projects AC1.3Describe outputs of those involved in realising construction projects AC2.1Describe processes used in built environment development projects AC2.2Calculate resources to meet requirements for built environment development projects AC2.3Assess potential effect of factors on project success AC2.4Interpret sources of information AC3.1Sequence processes to be followed AC3.2Apportion time to processes AC3.3Set project tolerances	Full understanding of: Those involved ·Client's team (client, architect, engineer, quantity surveyor, project manager, designer)·Contractor's team (builder/site engineer, site supervisor, safety officer, tradespersons, specialist sub-contractors)·Statutory personnel (building inspector, town planner, public health inspector)·General (administrator, finance officer, public liaison officer, purchasing/procurement officer, catering, security).  Construction projects ·Refurbishments ·Extensions Processes ·Planning (design, project planning, procurement) ·Construction (secure site, site clearance, substructure, super-structure) ·Handover to client (commissioning, handover) ·Maintenance Calculate ·Area ·Volume ·Percentages ·Scaling ·Best value ·Tolerances ·VAT ·Tender price Resources ·Plant ·Labour ·Materials Factors ·Internal e.g. lack of qualified and certified key personnel, sourcing of finance, security ·External e.g. penalty clauses, weather conditions. Sources of information ·Drawings ·Catalogues ·Spreadsheets ·Suppliers material lists ·Specifications Processes ·Planning ·Construction ·Handover Project tolerances ·Time ·Cost Accurately interprets required technical information from more than one type of source. Plans a detailed sequence of work which meets the requirements of the sources of information. The plan is mainly logical, showing knowledge of the processes to be followed and appropriate timescales. Comprehensively identifies and specifies all resources required to complete construction tasks.	Focus on plumbing installations.  Final CA on Brickwork if possible.	





Unit 2 – Developing construction projects	Skills LO1 Be able to interpret technical information  LO3 Be able to use construction processes in completion of construction tasks  LO3Be able to plan built environment development projects	AC1.1 Interpret technical sources of information AC1.2Plan sequence of work to meet requirements of sources of information AC2.1Identify resources required to complete construction tasks AC2.2Calculatematerials required to complete construction tasks AC2.3 Set success criteria for completion of construction tasks AC2.4 Prepare for construction tasks AC3.1Apply techniques in completion of construction tasks AC3.2Apply health and safety practices in completion of construction tasks AC3.2Apply health and safety practices in completion of construction tasks AC3.3Evaluatequality of construction tasks	Accurately calculates all materials required to complete the construction tasks using standard conventions and processes to complete all calculations. Identifies the success criteria for the completion of construction tasks from explicit and implicit information provided in the brief.  All appropriate preparation tasks are completed effectively in a logical sequence.  A range of techniques are used fluently and consistently in completion of all three specified tasks. All outcomes are within specification tolerances.  Applies health and safety practices in completion of construction tasks independently.  Evaluates the quality of construction tasks completed.  Judgements are reasoned and equal consideration given to specification and success criteria.	