

Level 3 TQUK DEC

	Year 12			Year 13		
	Autumn Term	Spring Term	Summer Term	Autumn Term	Spring Term	Summer Term
Content	Introduction Careers Group Design Project <ul style="list-style-type: none"> Infrastructure and Rail Hub Stations BIM Modelling <ul style="list-style-type: none"> Floor plans Schedules Elevations 3D views Unit 1 <ul style="list-style-type: none"> Identifying a project using LDP BREEAM Site Surveys Concept Designs Unit 2 <ul style="list-style-type: none"> Writing a design brief BIM Concept Designs 	Unit 2: <ul style="list-style-type: none"> Planning law Legislation Planning Permission Presenting a Proposal Unit 3: Architecture <ul style="list-style-type: none"> Exploring precedents Exploring materials Developing a proposal 	Unit 3: Structures <ul style="list-style-type: none"> Exploring precedents Exploring materials Understanding forces Researching loading Unit 4: Architecture <ul style="list-style-type: none"> Creating an architectural model Creating sheets and schedules Feedback and improvements Visit to SHU: <ul style="list-style-type: none"> degree shows 	Unit 4: Structures <ul style="list-style-type: none"> Creating a structural model Calculating structural elements Clash detection Feedback and improvements Building Services <ul style="list-style-type: none"> Researching lighting, heating and ventilation requirements Exploring and selecting appropriate technologies Modelling lighting Unit 5: <ul style="list-style-type: none"> BIM for FM Quantity surveying Costt modelling CV Workshop and applications for apprenticeships	Exam preparation <ul style="list-style-type: none"> Past papers KO Units 1-5 Unit 6 <ul style="list-style-type: none"> Creating digital and physical models Presenting a proposal to industry Walkthroughs AR and VR BIM 360 Visit to Laing O Rourke <ul style="list-style-type: none"> Modern methods of manufacture 	Presentations to Industry Unit 6: Evaluations <ul style="list-style-type: none"> Feedback from industry Improvements Evaluation of Learning Exam preparation
Assessment	Homework: Edulink Tests: Vocabulary and terminology Design Project will be graded, and feedback given	Homework: Edulink Tests: Vocabulary and terminology Units 1 and 2 will be assessed and feedback given Mock exam: Feb	Homework: Edulink Tests: Vocabulary and terminology Unit 3 will be assessed, and feedback given Mock exam:	Homework: Edulink Tests: Vocabulary and terminology Units 4 and 5 will be assessed and feedback given	Homework: Edulink Tests: Vocabulary and terminology Units 1,2,3,4 and 5 will be assessed and feedback given Exam: Jan 20th	Re-sit opportunity for the exam Presentations to Industry

A copy of the specification can be found at: <https://www.tquk.org/index.php/what-we-do/design-engineer-construct>