Assessment and Topic Links to Assessment

T Level Technical Qualification in Design, Surveying and Planning: Construction

Assessment guidance:

The T Level Technical Qualification in Design, Surveying and Planning: Construction - is 100% externally assessed. This means all the assessments are set and marked by Pearson.

This resource aims to give you a little more detail about the assessment, how to prepare your students, and links to where the Topics in the Delivery Pack appear within our Specimen Assessment Materials (SAM) and Additional Specimen Assessment Materials (AdSAM).

Technical Qualification Assessments:

There are three assessments in the Core Component of the T Level Technical Qualification in Design, Surveying and Planning: Construction

- Examination paper 1: Science and Building Technology
- Examination paper 2: Construction Industry and Sustainability
- Employer Set Project

Plus, there is one assessment for each the Occupational Specialisms.

- Building Services Design
- Civil Engineering
- Hazardous Materials Surveying
- Surveying and Design

Assessment Preparation	
Core Component	
Examination Papers	The Core Component is assessed through two examinations, each marked out of 100 and with a two and a half hour duration. Both papers are weighted at 33.3%. Examination 1 covers Content Areas 1 to 7. Examination 2 covers Content Areas 8 to 14. Both externally assessed written examinations comprise of two sections. Section A is weighted at 40% and Section B at 60% in both examinations.

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	Students must answer all questions in Section A and Section B. Both examinations will follow the same paper structure and will be available paper-based. The examination papers will ramp up in difficulty. The test questions will start at the lower end of the grade range, and ramp up to questions at the higher end of the grade range. The examinations will include short, medium and extended open-response calculations and questions, as well as drawing questions and labelling questions. Examination 2 will also include some drawing and design questions. Suitable revision strategies will include the use of the Specimen Assessment Materials (SAMs) to devise questions in the format that are used in the examination papers. Our SAMs and AdSAMs will be on Exam Wizard to support you in the creation of mock papers, this will be added to with past papers once they are available. For students to succeed it is important they understand the approach required to answer the different types of question. The command verbs, for example 'explain', 'analyse' and 'evaluate' should be emphasised and explained in order for students to grasp the type of response required for each of the questions. Once the examination series is complete a Principle Examiners Report will be published. This will include information on how the paper performed, with examples of responses at different levels of achievement that can then be used to demonstrate to students the standards of response that achieved different marks.
Employer Set Project	The Employer Set Project will be set and marked by us, and will take place within a four-week window. Most of the tasks will be timetabled by you, with the exception of one task that will be timetabled by us to ensure all students undertake it at the same time. Students will be provided with a client brief and specification, to which they will need to prepare designs and project management documentation. They will need to develop costing documentation and respond to challenges as a group. Prior to the assessment, students will be provided with a shortened client brief and specification, and given time to research similar projects. They will then complete all four tasks that make up the Employer Set Project. **Task 1: Response to a client brief and initial designs** In this task students will have to prepare a report that explores the potential challenges for the project, initial design ideas and probable timelines. Students will need to prepare project management documentation that shows these timelines. **Task 2: Designs.**

	Students will prepare designs for the proposed building project. They will need to produce sketches of the exterior of the building and the internal layout. They will need to produce a both CAD and hand produced drawings. **Task 3: Costs.** Students will be required to produce costing documentation for an aspect of the project. **Task 4: Responding to problems as a team.** In this task students will be asked to work as a team to respond to carry out research, and will then need to produce a group presentation/hold a group discussion to present potential solutions to the problem. To prepare for the assessment students could use the Specimen Assessment Materials or similar tasks could be developed using the same format. It might be appropriate to focus revision activities on individual tasks rather than a project as a whole.
Occupational Specialist Component	
Occupational Project	The T Level Technical Qualification in Construction: Design, Surveying and Planning consists of four Occupational Specialist Components: 1: Surveying and design for construction and the built environment 2: Civil engineering 3: Building services design 4: Hazardous materials analysis and surveying. Students will take one of the Occupational Specialist Components as part of their T Level Technical Qualification in Construction: Design, Surveying and Planning. The assessment for the Occupational Specialist Component takes the form of a single synoptic project, which is an extended 'design, development and implementation' project. The synoptic element of the project is important, as it is intended that students are able to demonstrate threshold competence: this is the principal reason why the Occupational Specialism is assessed via a single extended project, to ensure that students are able to evidence all the skills required by the Performance Outcomes. The Occupational Projects have a range of different durations and numbers of tasks (depending on the Occupational Specialism taken). However, they all have a total of 180 marks and represent 100% of the Occupational Specialist Component assessment.

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Topic links to assessment			
Core Component			
Topic 1 : Health and Safety	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	1a 1b 1c	[insert question numbers to map against the topic]
	Employer Set Project		[insert question numbers to map against the topic]
Topic 2 : Science	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	2a 2c 2d 3b 3c 3d 6d 6e	[insert question numbers to map against the topic]
	Employer Set Project	1 2	[insert question numbers to map against the topic]
Topic 3 : Measurement	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	3e	[insert question numbers to map against the topic]
	Employer Set Project	3	[insert question numbers to map against the topic]
Topic 4 : Building Technology	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**

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	Examination Paper: Science and Building Technology	5b 6a 6b 6c 8	[insert question numbers to map against the topic]
	Employer Set Project	1 2	[insert question numbers to map against the topic]
Topic 5 : Information and data	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	2b 7	[insert question numbers to map against the topic]
	Employer Set Project		[insert question numbers to map against the topic]
Topic 6 : Digital Technology	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	3a 5a 5c 5d	[insert question numbers to map against the topic]
	Employer Set Project		[insert question numbers to map against the topic]
Topic 7 : Construction Mathematical Techniques	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Science and Building Technology	5e	[insert question numbers to map against the topic]
	Employer Set Project		[insert question numbers to map against the topic]
Topic 8 : Design	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**

	Examination Paper: Construction Industry and Sustainability	1c 2a 2b 2d 2e 6b 6d	[insert question numbers to map against the topic]
	Employer Set Project	1 2	[insert question numbers to map against the topic]
Topic 9 : Construction in the Built Environment Industry	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	3b 4 5b 5d	[insert question numbers to map against the topic]
	Employer Set Project	1 3	[insert question numbers to map against the topic]
Topic 10: Sustainability	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	3a 3c 5c 5e 6c 8	[insert question numbers to map against the topic]
	Employer Set Project	1 2	[insert question numbers to map against the topic]
Topic 11 : Relationship Management	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	2c 6a	[insert question numbers to map against the topic]
	Employer Set Project	1 2	[insert question numbers to map against the topic]

		4	
Topic 12 : Commercial Business	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	1d	[insert question numbers to map against the topic]
	Employer Set Project	1	[insert question numbers to map against the topic]
Topic 13 : Project Management	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	5a 7	[insert question numbers to map against the topic]
	Employer Set Project	1	[insert question numbers to map against the topic]
Topic 14 : Law	**Assessment**	**Specimen Assessment Materials**	**AdSAMs**
	Examination Paper: Construction Industry and Sustainability	1a 1b	[insert question numbers to map against the topic]
	Employer Set Project	1	[insert question numbers to map against the topic]

Occupational Specialism Component			
Topic	**Occupational Specialism**	**Specimen Assessment Materials**	**Guide Standard Exemplification Materials**
Topic 1: Measure the built environment	Surveying and design for the construction and the built environment	Task 1 Task 2 Task 3 Task 4 Task 6	[insert to map against the topic]
Topic 2: Analyse the built environment	Surveying and design for the construction and the built environment	Task 6 Task 7	[insert to map against the topic]
Topic 3: Design the built environment	Surveying and design for the construction and the built environment	Task 1 Task 2 Task 4 Task 5 Task 6 Task 7	[insert to map against the topic]
Topic 4: Verify delivery of the built environment	Surveying and design for the construction and the built environment	Task 3 Task 7	[insert to map against the topic]
Topic 1: Analyse civil engineering solutions	Civil Engineering	Task 1 Task 2 Task 3 Task 4 Task 5 Task 7 Task 8 Task 9	[insert to map against the topic]
Topic 2: Design civil engineering solutions	Civil Engineering	Task 1 Task 2 Task 3 Task 4 Task 5 Task 6 Task 7 Task 8 Task 9	[insert to map against the topic]
Topic 3: Verify delivery of civil	Civil Engineering	Task 3 Task 4	[insert to map against the topic]

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engineering solutions		Task 5 Task 6 Task 7	
Topic 1: Analyse building services solutions	Building services design	Task 1 Task 2 Task 3	[insert to map against the topic]
Topic 2: Design building services	Building services design	Task 1 Task 2 Task 3 Task 4	[insert to map against the topic]
Topic 3: Verify delivery of building services solutions	Building services design	Task 5 Task 6	[insert to map against the topic]
Topic 1: Inspect the built environment	Hazardous materials analysis and surveying	Task 1 Task 2 Task 3	[insert to map against the topic]
Topic 2: Identify hazardous materials	Hazardous materials analysis and surveying	Task 1 Task 2 Task 3	[insert to map against the topic]
Topic 3: Analyse hazardous materials	Hazardous materials analysis and surveying	Task 4	[insert to map against the topic]
Topic 4: Monitor hazardous materials	Hazardous materials analysis and surveying	Task 5	[insert to map against the topic]

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