

T Level Technical Qualification in Design and Development for Engineering and Manufacturing

Employer-Set Project (8730-035)

Marking Grid Summer 2024

Contents

Contents	2
General marking approach	3
Use of ChatGPT (or any other Artificial Intelligence)	7
Assessment objectives	9
Employer-Set Project mark distribution	10
1. Research	11
2. Design	15
3. Plan	23
4. Present	29
Maths, English and Digital skills	36

Version control

Version	Updates made
V1.0	Version used for marking

General marking approach

The following process details at high level the steps that will be undertaken by the external marking teams at City & Guilds following the submission of candidate's submitted evidence (including additional supporting evidence such as videos of presentations etc.);

Process

- Marker scans / reads the candidate's evidence, any notes on the Declaration of Authenticity e.g. regarding level of support recorded and the band descriptors. Evidence contained on Declaration of Authenticity is taken into account along with all other candidate evidence at the point of marking – the external marker makes a judgement on the level of performance the candidate has demonstrated taking all the evidence into consideration and they then judge the appropriate mark following the normal process
- Marker makes an initial assessment of the best fit to band
- Marker reviews the candidate evidence against the initial band descriptor in more detail to decide if the response is securely sitting within the band; ie all characteristics described by the band descriptor are seen or it strongly meet the level of performance described by the descriptor holistically

- Marker will also check the descriptor for the level above
- If evidence clearly shows some of the characteristics of the higher band, the marker will select a suitable mark at the bottom of that band
- If not showing characteristics of the higher band, the marker will revert to the original band, selecting a mark at the higher end of that mark range

If the response is not securely in the band, but is partially showing the characteristics of the band

- Marker will check the descriptor of the level below/above
- Marker will decide on a suitable mark either at the bottom of the original band as some characteristics shown, or top of the lower band if it better describes the quality of the characteristics being shown

If the response is largely meeting the band, with only a few concerns and is not showing characteristics aligning with the higher or lower bands, the appropriate mark is likely to be in the middle range.

If there is no alignment with the descriptor, the marker will reassess the starting band, and begin again.

- Based on the level of alignment with the descriptor, the marker will confirm a final mark within the band, bearing in mind the marks available form an evenly distributed scale:
 - If the quality of response fully aligns with the performance described by the descriptor, the marker will assign a high mark within the band
 - If the quality of the response partially aligns with the performance described by the descriptor, the marker will assign a low to medium mark within the band
 - The marker will consider the quality of a range of similar responses (e.g., annotated lead grade exemplification materials, responses reviewed during standardisation, and through experience) and choose a mark that would give an appropriate ranking amongst those responses in relation to the full range of marks available in each band.
- In order to fully assess the evidence, it may be necessary to focus on several distinct aspects. These have been grouped into separate sub-grids (e.g., 1.1, 1.2 etc. to allow the marker to make separate assessment decisions, rather than attempt to

bring disparate elements together as a holistic judgement, to support reliability, validity and manageability for the marker.

- Should a candidate make an error or display a weakness in one task that is further compounded through the inter-dependent nature of the tasks and carry through that error, the marker should penalise the candidate only once. Each task should be considered within the constraints of the marking for the task itself, focusing on the knowledge and skills to be demonstrated in that task. For example, if the candidate does not research suitable materials in task 1, when they get to the presentation task 4 where the solution is presented – the marker should focus on looking at how well the candidate presents the solution they are proposing, ie, it is the presentation and communication skills that hold the main relevance in this task, rather than further penalising the candidate for a less than optimal material research and proposal from the initial task 1. Candidates can also use evaluation within later task responses to address issues they have identified.

Worked Example (1)

Grid 1 AOs: AO1, AO2a, AO3, Relevant Evidence: research notes, list of references/sources

Task 1	Band 1			Band 2			Band 3		
	1	2	3	4	5	6	7	8	9
Research (Planning, core knowledge, selecting techniques and resource)	Indicative Content – Sample version AO1 – The candidate has planned their research. This may be evidenced in the coherence of structure of the research notes, and in the sources/resources listed. The consistency of coverage of research requirements as detailed in the technical brief in relation to required aspects of the task. AO2a – Evidence of the candidate researching required elements and refining their approach to the problem and considering the jig requirements meet the specification given. Candidates provided details on research of materials, standard parts and relevant specifications. Research on responses to similar problems, similar solutions or ones that relate the provided brief. Detail of health and safety considerations and risk assessment requirements. AO3 – The candidate’s selected research techniques and resources to meet the brief and their relevance. The matching of resources and information to the various parts of the research requirement – use of specifications, diagrams, downloads etc to match the determinations that must be made.								
	Band 1			Band 2			Band 3		
	1	2	3	4	5	6	7	8	9
	Some evidence of a planned approach to research. (AO1)	Approach to research and collation of information shows planning and consistency. (AO1)			Brief requirements are considered consistently throughout the research and information collation – clear evidence of methodical and thorough approach to research and information gathering. (AO1)				
Some elements of core knowledge referenced but focus may be imbalanced and more focused on one area than another. (AO2a)	Core knowledge applied in most areas of the brief requirements. (AO2a)			Core knowledge applied in all areas of the brief requirements. (AO2a)					
Research techniques and resources clear as part of evidence submission. (AO3)	Evidence of a range of techniques and resources used and referenced, with different source types considered. (AO3)			Evidence of comprehensive research techniques, use of resources, and full range of sources. All sources fully detailed and presented fully and consistently. (AO3)					

Marker familiarises themselves with the marking grid, identifying:

- What candidate evidence is relevant.
- What aspects of the relevant evidence is to be considered from the indicative content.
- How performance is differentiated across the marking bands.

Marker scans the relevant evidence and makes an initial judgement on the level of performance.
 Marker allocates the marking band that the candidate’s performance best aligns to. E.g. Band 2.

If the candidate’s performance is **partially** meeting the descriptors within the band, the marker will check the descriptor of the level below.

If the candidate’s performance is **largely** meeting the descriptors within the band, with only a few concerns and is not aligning with the higher (B3) or lower (B1) bands, the appropriate mark is likely to be in the middle range.

If the candidate’s performance is **securely** meeting the descriptors in the band, the marker will also check the descriptor for the band above. (e.g. Band 3).

Marker decides to award Band 2 = 5 marks.

Marker will decide on a suitable mark either:

- at the bottom of the original band (B2) as some characteristics shown, i.e. 4 marks, or
- top of the lower band (B1) if it better describes the characteristics being shown i.e. 3 marks.

Marker will decide on suitable mark either:

- at the bottom of the higher band (B3) as some characteristics are shown, i.e. 7 marks, or
- revert to the original band, (B2) selecting a mark at the higher end of that mark range i.e. 6 marks.

Worked Example (2)

Grid 2 AOs: AO2b, Relevant Evidence: research notes, list of references/sources

Task 1	Band 1		Band 2		Band 3	
	1	2	3	4	5	6
Research	Indicative Content – Sample version					
(Core skills)	<p>AO2b – The candidate’s demonstration of judgement and reasoning in relation to the review of the requirements from the brief and the content within the notes. Details of research on technology solutions for the drill jig in order to meet the design specification supplied by the client and support the order of the bespoke shoulder screws. The candidate’s effectiveness of communication of research conducted to meet requirements outlined in the brief – clarity and conciseness of response. Expression of ideas in associated research analysis and level to which they are supported e.g. through inclusion of images and level of referencing to sources. Evidence of planning in research in terms of consistency and balance of response (time spent consistently on researching different elements).</p>					
	Band 1		Band 2		Band 3	
	1	2	3	4	5	6
	Some basic elements of core skills drawn on and evidenced within task response - limited use of skills in relation to brief requirements. (AO2b)		A range of core skills applied and evidenced consistently in task response in relation to different elements of the project brief. (AO2b)		Core skills applied consistently and comprehensively throughout task completion with - full range of core skills evidenced. (AO2b)	

Marker familiarises themselves with the marking grid, identifying:

- What candidate evidence is relevant.
- What aspects of the relevant evidence is to be considered from the indicative content.
- How performance is differentiated across the marking bands.

Marker scans the relevant evidence and makes an initial judgement on the level of performance.
Marker allocates the marking band that the candidate’s performance best aligns to. E.g., Band 3.

If the candidate’s performance is **largely or partially** meeting the descriptor of the band, the marker will also check the descriptor of the level below.

If the candidate’s performance is **securely** meeting the descriptors in the band, marker selects a mark at the higher end of that mark range.

Marker decides to award Band 3 = 6 marks.

If there is **no or little** alignment with the descriptor, the marker will reassess the starting band, and begin again. E.g. begin at band 2, with consideration made to band 1.

If the quality of the response **fully** aligns with the performance described by the descriptor in the band below (B2), the marker will assign a mark at top of this band.

Marker decides to award Band 2 = 4 marks.

If the quality of the response **exceeds** with the performance described in the lower band (B2), then the marker should revert to the initially allocated band (B3) and assign a low to medium mark within the band.

Marker decides to award Band 3 = 5 marks.

Use of ChatGPT (or any other Artificial Intelligence)

What isn't permitted

AI misuse is where a student uses an AI tool in an assessment or fails to appropriately reference it in an assessment where internet use is permitted. Examples include the following:

- Failing to reference use of AI tools when they have been used as a source of information;
- Incomplete or poor referencing of AI tools;
- Copying sections of AI-generated content so that the work is no longer the student's own;
- Copying whole responses of AI-generated content;
- Submitting work with intentionally incomplete or misleading references or bibliographies.

AI misuse constitutes malpractice as defined in the JCQ Suspected Malpractice: Policies and Procedures (<https://www.jcq.org.uk/exams-office/malpractice/>). We encourage markers to read and reference this guidance if they feel the need to flag potential malpractice related to ChatGPT. The malpractice sanctions available for the offences of 'making a false declaration of authenticity' and 'plagiarism' include disqualification and debarment from taking qualifications for a number of years.

What is permitted

AI may have been used by the candidate as a source within their research task (Task 1 only). Where students use AI, they must acknowledge its use and show clearly how they have used it. However, how candidates have decided to use it will impact on the overall mark they are allocated.

The use of AI as a research technique will impact Grid 1. Below details how they will be impacted and what needs to be considered:

Grid 1

- AO1: Planning (Approach to research and information gathering)
 - Has the candidate validated the information given to them by the AI solution?
- AO2a: Application of Core Knowledge
 - Does the candidate's evidence demonstrate how they have taken the research provided by the AI and used this, alongside their own knowledge in response to the brief?
- AO3: Selecting Techniques and Resources
 - Has the candidate considered other approaches to research, or have they just deferred to AI?
 - Is the use of AI appropriate referenced?

Worked Example

Candidate A has referenced ChatGPT along with one other web-address, which has barely been used or referred to within their evidence. They have considered the majority of the prompt given in the brief but not all.

The way the evidence is presented, it's difficult to determine what information is taken directly from the source and what is the learner's interpretation of this information. On this occasion, the learner is likely to be contained to marks within Band 1 because:

- There is some evidence that they carried out some planning – they've considered the majority of the prompts within the brief.
- It's difficult to determine how the candidate has interpreted the information from the research and applied their own knowledge within the evidence given the way it's presented.
- They have used ChatGPT as a primary source and have only followed up with one other website, and the reference to this is limited, therefore, minimal techniques have been used. To add to this the candidate has not made it clear within their reference what is the output from ChatGPT and what is their own work.

What to do if you believe you've identified potential misuse of AI

Any concerns around AI misuse must be treated as potential malpractice. You must flag this by putting the candidate on HOLD in myMarkis. Further guidance relating to this can be found in Section 12 (Page 6) of the 'myMarkis Checklist for Marking' document.

What to do if you're unsure

Your marking supervisor is there to support you through the process, as are the City & Guilds Assessment team. If you have a specific candidate you'd like to talk through in more detail please reach out to them.

Assessment objectives

The Employer-Set Project is assessed against five assessment objectives. The assessment objectives are mapped against each task within the marking grids:

AO Ref	Assessment Objective
AO1	Plan their approach to meeting the project brief
AO2	Apply core knowledge and skills as appropriate
<ul style="list-style-type: none"> • AO2a • AO2b 	<ul style="list-style-type: none"> ○ core knowledge ○ core skills <ul style="list-style-type: none"> i) Planning and preparation eg interpret and confirm project requirements; plan and scope project (eg timescales, requirements, resources, cost); develop project plans. ii) Communication eg interpret, use and produce engineering representations and drawings (including graphical language/conventions), interpret and use relevant technical information in a range of formats and media, communicate appropriately with technical and non-technical audiences (using appropriate technology, as appropriate). iii) Develop and manufacture eg design or devise a proposal to meet the brief, develop, model and revise concept/s. iv) Evaluation eg carry out appropriate tests, evaluation and analysis (at relevant stages), confirm appropriate model for final realisation, testing for suitability, evaluate how well the final product meets the brief (eg quality, time, resources, cost).
AO3	Select relevant techniques and resources to meet the brief
AO4	Use maths, English and digital skills as appropriate
<ul style="list-style-type: none"> • AO4a • AO4b • AO4c 	<ul style="list-style-type: none"> ○ maths ○ English ○ digital
AO5	Realise a project outcome and review how well the outcome meets the brief
<ul style="list-style-type: none"> • AO5a • AO5b 	<ul style="list-style-type: none"> ○ realise a project outcome – was the right outcome achieved ○ review how well the outcome meets the brief, how well the brief was met, the quality of the outcome in relation to the brief

Employer-Set Project mark distribution

This table illustrates how the 90 marks for the Employer-Set Project are distributed against the tasks and mapped to each assessment objective. These have been set by subject matter experts and employers and will support the comparability between versions of the Employer-Set Project over time.

Tasks	AO1	AO2a	AO2b	AO3	AO5a	AO5b	Total	AO4a	AO4b	AO4c	
1. Research	3	3	6	3	0	0	15	3	3	3	
2. Design	3	6	6	3	3	3	24				
3. Plan	3	6	6	3	0	0	18				
4. Present	3	6	6	3	3	3	24				
Total	12	21	24	12	6	6	81	9			90
AO marks	12	45		12	12		-	9		90	
AO %	13.3%	50%		13.3%	13.3%		-	10%		100%	

NB - AO2 collectively must be at least 50% (ie 45 marks)

1. Research

Grid 1: AO1, AO2a, AO3 Research (Planning, core knowledge, selecting techniques and resource)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Technical brief including an evaluation of potential buoy materials, technology and aesthetic design features, key requirements for a suitable buoy and your initial concept ideas for the buoy based on the client's design specification. • Any supporting documentation such as research notes. 		
Indicative Content Version C	<p>AO1 – Plan their approach to meeting the project brief</p> <p>The candidate's:</p> <ul style="list-style-type: none"> • Approach to investigating potential solutions. • structure of the technical brief and research notes. • consideration of the different aspects of the task specifically: <ul style="list-style-type: none"> ○ suitable and sustainable materials options for the buoy (corrosion/rust-resistant) ○ suitable technology for: <ul style="list-style-type: none"> ▪ alert system ▪ tracking system ▪ renewable power source (12 V) that is secure, easily accessible and watertight within the buoy. ○ ergonomic and aesthetic design and standard buoy fixings to seabed. • clarity of references to sources of guidance and industry standards. 	AOs (marks)	Total marks available
	<p>AO2a – Apply core knowledge</p> <p>The candidate's:</p> <ul style="list-style-type: none"> • confidence and appropriateness of use of terminology. • accuracy of the technical brief contents in relation to sources. • extent to which the candidate has selected and defined the properties of a sustainable material for the buoy casing and a further material for the internal structure. • definition of properties may involve specifying the corrosion/rust resistance of the material. • choice of technology of an alert system, tracking system and renewable power source for the buoy and how well it meets the required power requirements through the year. 	<p>AO1 (3)</p> <p>AO2a (3)</p> <p>AO3 (3)</p>	9

Grid 1: AO1, AO2a, AO3 Research (Planning, core knowledge, selecting techniques and resource)								
<ul style="list-style-type: none"> • comments on the acceptable fixing of the buoy to current sea-bed fixings and any further developed guidance on the overall shape and aesthetics. • evaluation of different options and reasoning for refining/selecting solutions, how this links back to the specifics of the design specification and brief from client. <p>AO3 – Select relevant techniques and resources to meet the brief</p> <p>The candidate's:</p> <ul style="list-style-type: none"> • range of techniques and resources used to carry out research (such as the number of websites, and types of websites). • consideration of the relevance and reliability of the sources used during the research. • ability to apply the findings from the research into their initial proposal. • clarity of solutions and how closely and how clearly they are derived from industry guidance and manufacturer proprietary literature e.g. Marine standards electrical standards for low voltage IEC/IEEE DIS 80005-3. • clarity of references to sources of guidance and industry standards. • Use of pictures, drawings, schematics, specifications and sketches alongside prose to communicate their initial design concepts. 								
Marking descriptors – All versions								
Note: where there is insufficient evidence to award a mark, a zero mark may be given								
Band 1 descriptor			Band 2 descriptor			Band 3 descriptor		
1	2	3	4	5	6	7	8	9
Some evidence of a planned approach to research. (AO1)			Approach to research and collation of information shows planning and consistency. (AO1)			Brief requirements are considered consistently throughout the research and information collation – clear evidence of methodical and thorough approach to research and information gathering. (AO1)		

Grid 1: AO1, AO2a, AO3 Research (Planning, core knowledge, selecting techniques and resource)		
Some elements of core knowledge referenced but focus may be imbalanced and more focused on one area than another. (AO2a)	The application of core knowledge is referenced consistently for example in relation to technology, selection of materials and development of initial ideas. (AO2a)	Core knowledge applied in all areas of the brief requirements including - technology, construction materials, and idea summation. (AO2a)
Research techniques and resources detailed as part of evidence submission. (AO3)	Evidence of a range of techniques and resources used and referenced, with different source types considered. (AO3)	Evidence of comprehensive research techniques, use of resources, and full range of sources. All sources fully detailed and presented fully and consistently. (AO3)

Grid 2: AO2b Research (Core Skills)					
Guidance for markers		<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Technical brief including an evaluation of potential buoy materials, technology and aesthetic design features, key requirements for a suitable buoy and your initial concept ideas for the buoy based on the client’s design specification. • Any supporting documentation such as research notes. 			
Indicative Content Version C	<p>AO2b – Application of core skills Core skills being assessed:</p> <ul style="list-style-type: none"> • Communication: <ul style="list-style-type: none"> - effectiveness of communication of refined technical requirements for the buoy- clarity and conciseness of delivery. - use of industry conventions and technical language - use of methods to communicate ideas (drawings, sketches, diagrams, schematics, written format). - clarity and conciseness of expressions of ideas. • Developing proposals and concepts: <ul style="list-style-type: none"> - judgement and reasoning in relation to the refinement of the product design specification. - level of synergy of initial ideas for the buoy. 			AOs (marks)	Total marks available
				AO2b (6)	6
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
Some basic elements of core skills drawn on and evidenced within task response - limited use of skills in relation to brief requirements. (AO2b)		A range of core skills applied and evidenced consistently in task response in relation to different elements of project brief. (AO2b)		Core skills applied consistently and comprehensively throughout task completion with - full range of core skills evidenced. (AO2b)	

2. Design

Grid 3: AO1, AO3 Design (Planned approach, selecting techniques)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Annotated sketches of at least two potential designs which illustrate buoy base and anchor mechanism, materials from which the buoy is to be constructed, shape and ergonomic features of the buoy, full dimensions, GPS and tracking system used, renewable energy technology to be used along with battery and anti-rust and corrosion features. • Renewable energy calculations • Notes on how the potential designs meet the brief requirements. • Dimensioned and scaled CAD drawing(s) of preferred chosen buoy design. 		
Indicative Content	<p>AO1 – Plan their approach to meeting the project brief The candidate's</p> <ul style="list-style-type: none"> • layout of sketches and CAD drawings for the buoy, into plans, elevations, sections and details. • coverage of the requested elements of the task: <ul style="list-style-type: none"> ○ fully-annotated sketches ○ with supporting notes ○ working calculations ○ a final fully dimensioned CAD drawing • coherence of structure and clarity of task 2 <p>AO3 – Select relevant techniques and resources to meet the brief The candidate's</p> <ul style="list-style-type: none"> • presentation of sketches and CAD drawings, adherence to convention and annotations, clarity, quality and accuracy. • use of a drawing frame for drawings, and inclusion of title block. • consideration of industry practices and use of adopted scale when creating the sketches and drawings. • presentation and format of calculations prepared by the candidate for power needs of renewable energy produced against the standard that is required to maintain the electrical systems of the alert system and tracking system. 	AOs (marks)	Total marks available
		AO1 (3)	6
Version C		AO3 (3)	

Grid 3: AO1, AO3 Design (Planned approach, selecting techniques)					
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
Some evidence of a planned approach to design task, response may lack detail and calculation information. (AO1)		Approach to design and calculations information is planned, organised and complete. (AO1)		Approach to design and calculations fully comprehensive and in line with standard industry practices / best practice (AO1)	
Some relevant techniques used in the preparation and presentation of drawings/sketches and associated calculations. (AO3)		Relevant techniques and industry drawing conventions used throughout the preparation and presentation of drawings/sketches and associated calculations. (AO3)		Preparation and presentation of drawings/sketches and associated calculations is fully in line with industry drawing conventions showing the use of all correct techniques. (AO3)	

Grid 4: AO2a Design (Core Knowledge)					
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Annotated sketches of at least two potential designs which illustrate buoy base and anchor mechanism, materials from which the buoy is to be constructed, shape and ergonomic features of the buoy, full dimensions, GPS and tracking system used, renewable energy technology to be used along with battery and anti-rust and corrosion features. • Renewable energy calculations • Notes on how the potential designs meet the brief requirements. • Dimensioned and scaled CAD drawing(s) of preferred chosen buoy design. 				
Indicative Content Version C	<p>AO2a – Apply core knowledge The candidate's</p> <ul style="list-style-type: none"> • choice of language used in any text on the sketches and CAD drawings, its technical levels and consistency with the intended audience. • proposed solutions for the design of the buoy, how well they meet industry guidance, have the potential to be implemented and their technical sense. • material used: rust and corrosion resistant. • renewable power source for electrical systems. • accuracy of technical principles applied throughout the design. • ability to make links between general knowledge and understanding of engineering principles and apply this to the given scenario. • approach to perform calculations, selected method used to determine this and level of consideration of safety factors. 			AOs (marks)	Total marks available
				AO2a (6)	6
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6

Grid 4: AO2a Design (Core Knowledge)		
Some elements of core knowledge drawn on and evidenced - limited comprehension of knowledge in relation to brief requirements e.g., brief requirements omitted indicating lack of knowledge of that area. (AO2a)	Knowledge from across the core applied and evident in relation to different elements of project brief. (AO2a)	Core knowledge applied consistently throughout response with minimal technical inaccuracies. (AO2a)
Some links to the application of core knowledge to support judgements, but connections are not always clear and accurate. (AO2a)	Links to the application of core knowledge to justify and support judgements, but with some gaps or inaccuracies. Concepts explained/referenced clearly and correctly. (AO2a)	Connections between elements of core knowledge exploited to strengthen arguments and demonstrate understanding. (AO2a)

Grid 5: AO2b Design (Core skills)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Annotated sketches of at least two potential designs which illustrate buoy base and anchor mechanism, materials from which the buoy is to be constructed, shape and ergonomic features of the buoy, full dimensions, GPS and tracking system used, renewable energy technology to be used along with battery and anti-rust and corrosion features. • Renewable energy calculations • Notes on how the potential designs meet the brief requirements. • Dimensioned and scaled CAD drawing(s) of preferred chosen buoy design. 		
Indicative Content Version C	<p>AO2b – Application of core skills</p> <p>Core skills being assessed:</p> <p>Communication</p> <ul style="list-style-type: none"> • effectiveness in communicating idea/information through sketches, CAD drawings and associated annotations so the key features of the buoy can be interpreted e.g. the materials from which the buoy is to be constructed and technology that is to be used. This being renewable power source for alert and tracking system. • use of proportion within sketches for the buoy, use of dimension and annotations on CAD drawings. <p>Developing proposals and concepts</p> <ul style="list-style-type: none"> • demonstration of judgement and reasoning in relation to the preparation of the solution, considering the original product design specification for the buoy. • selection of shape, material finish & colour, functionality, key components and preventative collision measures for the buoy. • incorporation of the required aspects in the design- use of logical and synergised approach and consideration of aesthetics of the buoy design. <p>Planning and preparation</p> <ul style="list-style-type: none"> • demonstrate reasoned judgement in the preparation of the solution. • incorporation of the required aspects in the design – use of logical and synergised approach. • designs meet the client’s design specification and the demands of the task. 	AOs (marks)	Total marks available
		AO2b (6)	6

Grid 5: AO2b Design (Core skills)					
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
Some elements of core skills drawn on and evidenced within task response - limited use of skills in relation to brief requirements. (AO2b)		A range of core skills applied and evident in task response in relation to different elements of project brief. (AO2b)		Core skills applied consistently throughout task completion with - full range of core skills evidenced. (AO2b)	
Design has limited logic and shows superficial coherence between different aspects of the brief. Representations lack proportionally, dimension, and annotation. (AO2b)		Design is logical and shows some coherence between different aspects of the brief. Representations are mostly proportional and correctly dimensioned with significant annotation. (AO2b)		Design is logical and demonstrates detailed coherence between different aspects of the design brief. Representations are proportional, have detailed dimensions and annotation. (AO2b)	

Grid 6: AO5a, AO5b Design (Realise outcome, review outcome)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Annotated sketches of at least two potential designs which illustrate buoy base and anchor mechanism, materials from which the buoy is to be constructed, shape and ergonomic features of the buoy, full dimensions, GPS and tracking system used, renewable energy technology to be used along with battery and anti-rust and corrosion features. • Renewable energy calculations • Notes on how the potential designs meet the brief requirements. • Dimensioned and scaled CAD drawing(s) of preferred chosen buoy design. 		
Indicative Content Version C	<p>AO5a - realise a project outcome – was the right outcome achieved Considering the candidate’s preferred chosen buoy design and:</p> <ul style="list-style-type: none"> • the effectiveness of the solution in relation to the context given in the project brief. • the extent the solution meets the requirements of the product design specification. • how ‘fit for purpose’ the buoy design is. • how ‘believable’ the solution is to meet client requirements. <p>AO5b – review how well the outcome meets the brief, how well the brief was met, the quality of the outcome in relation to the brief The candidate’s:</p> <ul style="list-style-type: none"> • evaluation and review of requirements of the product design specification and recognition of how these have been met with proposed buoy design. • development of ideas from two potential solutions to one final solution, rationale for the selection of a buoy design option from the prepared sketches, clarity on which has been taken forward and drawn up as a fully annotated and dimensioned CAD drawing. • evaluation of how the final buoy design has met the client requirements given in the product design specification. • development of ideas throughout the task, refining, improving and building upon potential solutions as they progress. 	AOs (marks)	Total marks available
		AO5a (3) AO5b (3)	6
Marking descriptors – All versions			
Note: where there is insufficient evidence to award a mark, a zero mark may be given			

Grid 6: AO5a, AO5b Design (Realise outcome, review outcome)					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
Task response partially addresses some of the task requirements. (AO5a)		Task response addresses all aspects of the task requirements. (AO5a)		Task response fully addresses all aspects of all elements of the task requirements. (AO5a)	
Evaluation and review do not clearly address how well the task outcome met the brief and lacks clarity and reasoning in places. (AO5b)		Evaluation and review address how well the task outcome was achieved. (AO5b)		Evaluation and review are comprehensive and specifically addresses how well the task outcome was achieved. (AO5b)	

3. Plan

Grid 7: AO1, AO3 Plan (Planned approach, selecting techniques)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Programme of work detailing key stages of the project, technology and resources required to manufacture the buoys, duration and sequence of activities and identification of the critical path. • A supporting statement which considers health and safety requirements including risk assessment, quality control, key stages for manufacturing the buoy, waste management and environmental factors and all assumptions relating to in-house manufacturing capabilities and resources. 		
Indicative Content Version C	AO1 – Plan their approach to meeting the project brief The candidate's	AOs (marks)	Total marks available
	<ul style="list-style-type: none"> • planning of activities to complete the design, development and manufacture of the buoy and the sequence presented, including cost for each stage. • adherence to the constraints set within the brief and the achievability and realism of their plan (budget of £200,000 with a maximum timescale of 70 weeks). • achievability and realism of their plan. • inclusions of relevant information to facilitate delivery of the plan. • consideration of dependences between the different activities, clarity and accuracy of task connections shown on the critical path analysis. 	AO1 (3) AO3 (3)	6
Marking descriptors – All versions			

Grid 7: AO1, AO3 Plan (Planned approach, selecting techniques)					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
<p>Limited approach to planning, response contains evidence of some of the required elements. (AO1)</p> <p>There is limited justification for the selection of techniques, resources (e.g., equipment, contractors), methods, and materials (including disposal) to be used. The choices made are not always the most effective or appropriate for the prescribed project brief. (AO3)</p>		<p>Response contains required elements in logical order with consideration of deadline and layout. (AO1)</p> <p>Techniques and/or resources (e.g., equipment, contractors), methods, and materials (including disposal) selected from those available to respond to the brief requirements. The choices made are mostly accurate and appropriate for the prescribed project brief. (AO3)</p>		<p>Logical and clear approach used with evidence of a detailed plan and methodology in line with standard engineering industry practices / best practice and effective prioritisation. (AO1)</p> <p>There is a detailed and justified approach to the selection of resources (e.g., equipment, contractors), methods and materials (including disposal). The choices made are accurate and appropriate for the prescribed project brief. (AO3)</p>	

Grid 8: AO2a Plan (Core Knowledge)					
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Programme of work detailing key stages of the project, technology and resources required to manufacture the buoys, duration and sequence of activities and identification of the critical path. • A supporting statement which considers health and safety requirements including risk assessment, quality control, key stages for manufacturing the buoy, waste management and environmental factors and all assumptions relating to in-house manufacturing capabilities and resources. 				
Indicative Content Version C	AO2a – Apply core knowledge			AOs (marks)	Total marks available
	<p>The candidate's</p> <ul style="list-style-type: none"> • use of technical terminology with supporting statement, its consistency and appropriateness for the intended audience. • level of detail of current health and safety requirements including risk assessment. • justification of the key stages for manufacturing the buoy, this can include evidence of collation of appropriate activities (e.g. cutting or moulding the material for the casing) and the logic in the sequence in which they are presented. • consideration and level of knowledge relating to waste management and environmental factors. • assumptions made relating to the in-house manufacture of the buoy and all electrical elements, the fullness of their explanation in the supporting statement, their validity and alignment to accepted best practice in industry. • breadth and depth of assumptions made in relation to the development from across the core content. 			AO2a (6)	6
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6

Grid 8: AO2a Plan (Core Knowledge)		
Some elements of core knowledge referenced within plan - limited comprehension of knowledge in relation to brief requirements. (AO2a)	Elements of core knowledge directly highlighted in brief referenced within plan – knowledge evidenced may have gaps or show some misunderstanding. (AO2a)	Knowledge from across the core applied and evident in plan in relation to different elements of project brief. (AO2a)
Supporting information details some links to the application of core knowledge to support judgements, but connections are not always clear and accurate. (AO2a)	Supporting information details links to the application of core knowledge to justify and support judgements, but with some gaps or inaccuracies. (AO2a)	Connections between elements of core knowledge fully explained within the supporting information to strengthen arguments and demonstrate understanding. (AO2a)

Grid 9: AO2b Plan (Core skills)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Programme of work detailing key stages of the project, technology and resources required to manufacture the buoys, duration and sequence of activities and identification of the critical path. • A supporting statement which considers health and safety requirements including risk assessment, quality control, key stages for manufacturing the buoy, waste management and environmental factors and all assumptions relating to in-house manufacturing capabilities and resources. 		
Indicative Content Version C	<p>AO2b – Application of core skills Core skills being assessed: Planning and preparation:</p> <ul style="list-style-type: none"> • professionalism of the presentation of the programme of works and to what extent it is conveyed using industry standard notation and features. • use of recognised methods of presentation for the programme (e.g., Gantt Chart) and comprehensiveness of completion (e.g., tasks, milestones, resources, and critical path analysis). • coverage of the activities required to complete the design and development of the buoy and how comprehensive this is. <p>Communication:</p> <ul style="list-style-type: none"> • structure, logic and coherence of the supporting statement and coverage of the required considerations. <p>Developing proposals and concepts:</p> <ul style="list-style-type: none"> • how comprehensively the programme covers the activities required to complete the design, development and manufacturing • justifying the approach taken during planning which may consider: <ul style="list-style-type: none"> ○ health and safety including risks assessment requirements ○ any standards relevant to the manufacturing process ○ specialist equipment which may be needed ○ waste management and environmental considerations ○ the manufacturing approach which has been used 	AOs (marks)	Total marks available
		AO2b (6)	6

Grid 9: AO2b Plan (Core skills)						
	<ul style="list-style-type: none"> ○ all assumptions relating to in house manufacturing capabilities and resources. 					
Marking descriptors – All versions						
Note: where there is insufficient evidence to award a mark, a zero mark may be given						
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor		
1	2	3	4	5	6	
Some elements of each core skill applied - limited application of skills in practice in relation to brief requirements. (AO2b)		Elements of most core skills directly highlighted in brief used efficiently and consistency throughout. (AO2b)		All aspects of all core skills applied effectively throughout plan creation with clear focus on to required outcomes and linking of skills to task elements is fully considered. (AO2b)		

4. Present

Grid 10: AO1, AO3 Present (Planned approach, selecting techniques)						
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Video recording of presentation • Presentation materials (slides, handouts, notes etc) • Presentation Q&A Record (if this cannot be heard on the video) <p>Audience: Presentative of the client, a mixture of both technical and non-technical backgrounds.</p>					
	Indicative Content Version C	<p>AO1 – Plan their approach to meeting the project brief</p> <p>The candidate's</p> <ul style="list-style-type: none"> • logic, order and coherence, of the presentation (e.g., containing an introduction to themselves, an introduction to what will be covered within the presentation, a conclusion, and an invitation to ask questions from the audience). <p>AO3 – Select relevant techniques and resources to meet the brief</p> <p>The candidate's</p> <ul style="list-style-type: none"> • selection and application of techniques for delivering the presentation, how appropriate and effective they are (e.g., use of slide deck, reference to notes, provision of handouts, use of other reference material). • use of positive non-verbal communication during delivery (e.g., maintaining eye contact with the audience) and the clarity of speaking/delivery, and the level of which distraction behaviour is displayed (e.g. rocking, tapping., pausing). 			AOs (marks)	Total marks available
					AO1 (3)	6
				AO3 (3)		
Marking descriptors – All versions						
Note: where there is insufficient evidence to award a mark, a zero mark may be given						
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor		
1	2	3	4	5	6	

Grid 10: AO1, AO3 Present (Planned approach, selecting techniques)		
<p>The presentation lack's structure and does not always follow a logical approach due of ineffective planning. (AO1)</p> <p>Technique used to deliver the presentation is sometimes effective. However technical information is not always complete and accurate. (AO3)</p>	<p>The presentation is structured and follows a logical approach in response to the task with evidence of planning. (AO1)</p> <p>Techniques used to deliver the presentation are mostly effective. The technical information provided is accurate most of the time with valid reasoning. (AO3)</p>	<p>The presentation is organised, structured and logical in its approach. It is clear that the presentation content has been considered in terms of its audience. (AO1)</p> <p>Techniques used to deliver the presentation are effective with well justified reasoning behind the information provided. (AO3)</p>

Grid 11: AO2a Present (Core Knowledge)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Video recording of presentation • Presentation materials (slides, handouts, notes etc) • Presentation Q&A Record (if this cannot be heard on the video) <p>Audience: Presentative of the client, a mixture of both technical and non-technical backgrounds.</p>		
Indicative Content Version C	<p>AO2a – Apply core knowledge</p> <p>The candidate’s</p> <ul style="list-style-type: none"> • judgements in the preparation of the presentation, how well they are reasoned and cover the key features of the buoy system design and the proposed approach to manufacture the buoy system. • interpretation of the challenges within the Harbour Shipping Limited’s design brief and explanations as to how these have been overcome in the design of the buoy system presented. • understanding of engineering principles which has influenced the solutions and with reasoning of why these suitably meet the design specification from the client for the following features: <ul style="list-style-type: none"> • the purpose and function of the tracking and alert system technology deployed in the buoy to monitor drift of buoy. • explanation of measures taken to make the buoy sustainable and energy efficient. • aesthetic and ergonomic features of the buoy and explanation of how these fit the station setting. • buoy will withstand corrosion, can resist minor impacts, and explanation of how this was assessed. • confidence and accuracy when responding to question from the client (tutor/ manager from Harbours Shipping Limited). • use of technical language (with consideration of the target audience) 	AOs (marks)	Total marks available
		AO2a (6)	6
Marking descriptors – All versions			

Grid 11: AO2a Present (Core Knowledge)

Note: where there is insufficient evidence to award a mark, a zero mark may be given

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
<p>Engineering concepts relating to the core knowledge conveyed through the presentation - these may not always be accurate or be directly linked to the brief requirements. (AO2a)</p> <p>Terminology used may have inaccuracies and content provided may include inconsistencies and not clear to the targeted audience. (AO2a)</p>		<p>Engineering concepts relating to the core knowledge are coherent throughout the presentation to meet the requirements of the brief set. (AO2a)</p> <p>Terminology used is mostly accurate with minor errors. The content provided is in the most correct but does not always consider target audience / may be imbalanced or biased (e.g., to either technical or non-technical focus). (AO2a)</p>		<p>Engineering concepts relating to the core knowledge are coherent with clear justifications on how these are applied in response to the brief requirement. (AO2a)</p> <p>Terminology used is accurate and error free. The content provided is clear and easily understood by the target audience, with no bias in tone / imbalance across audience type (where appropriate). (AO2a)</p>	

Grid 12: AO2b Present (Core skills)					
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Video recording of presentation • Presentation materials (slides, handouts, notes etc) • Presentation Q&A Record (if this cannot be heard on the video) <p>Audience: Presentative of the client, a mixture of both technical and non-technical backgrounds.</p>				
	Indicative Content Version C	<p>AO2b – Application of core skills Core skills being assessed:</p> <p>Planning and preparation:</p> <ul style="list-style-type: none"> • professionalism of presentation resources (slides/presentation methods.) <p>Communication:</p> <ul style="list-style-type: none"> • effectiveness in communicating the key features of the buoy design – including fluency, clarity and conciseness. • clarity and size of images and figures, inclusion of labels, font size. 			<p>AOs (marks)</p> <p>AO2b (6)</p>
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6
Communication of engineering concepts is sometimes effective. The delivery of technical information may lack accuracy and clarity for the audience. (AO2b)		Engineering concepts are communicated effectively most of the time in an appropriate manner for the target audience. There are minor inaccuracies in the delivery of information which causes a lack of clarity in some instances. (AO2b)		Highly effective communication of engineering concepts is appropriate for the target audience. Technical information is presented accurately and delivered with clarity. (AO2b)	

Grid 13: AO5a, AO5b Present (Realise outcome, review outcome)					
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Video recording of presentation • Presentation materials (slides, handouts, notes etc) • Presentation Q&A Record (if this cannot be heard on the video) <p>Audience: Presentative of the client, a mixture of both technical and non-technical backgrounds.</p>				
Indicative Content	<p>AO5a - realise a project outcome – was the right outcome achieved</p> <p>The candidate's</p> <ul style="list-style-type: none"> • effectiveness in evaluating the challenges presented by the brief and how these have been overcome. • identification of which areas of the brief were/were not satisfied. • reflections on additional aspects of research/design process they could have done, any rework of that would improve / enhance a future project outcome. 			AOs (marks)	Total marks available
	<p>AO5b – review how well the outcome meets the brief, how well the brief was met, the quality of the outcome in relation to the brief</p> <p>The candidate's</p> <ul style="list-style-type: none"> • clarity within their evaluation and review of the challenges of the product design specification, and indications within the presentation on how these have been overcome. • clarity of explanation of how the final design addresses the requirements of the product design specification brief, including any featured considered by the candidate to be improved. 			AO5a (3)	6
Version C					
Marking descriptors – All versions					
Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	2	3	4	5	6

Grid 13: AO5a, AO5b Present (Realise outcome, review outcome)		
Project outcome as a whole partially addresses some of the brief requirements. Articulates some challenges encountered. (AO5a)	Project outcome as a whole address all aspects of the brief requirements. Articulates all challenges encountered and the attempts to overcome them. (AO5a)	Project outcome as a whole fully addresses all aspects of the brief requirements and considers alternative options where appropriate. Articulates fully challenges encountered and comprehensively covers how they were overcome. (AO5a)
No or minimal reasons and justification in how effectively the brief was met across project tasks. (AO5b)	There is reason and justification in how effectively some areas of the brief were met across project tasks. (AO5b)	Detailed reasoning behind how successfully the project brief was met across project tasks. (AO5b)

Maths, English and Digital skills

Grid 14: AO4a (Maths)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Annotations on sketches (Task 2) • Dimensioning and scaling CAD drawing (Task 2) • Electrical power requirements (Task 2) • Calculation of design and manufacturing cost, timescales and critical path within the Programme of work (Task 3) 		
Indicative Content Version C	<p>The candidate's:</p> <ul style="list-style-type: none"> • use of numeracy to provide dimensioned sketches and scaled CAD drawing(s). • selection and use of mathematical methods to determine the power requirements and storage. • clarity and accuracy in the calculations. • accuracy in calculation of the duration of activities on the programme of work plan and accuracy of completion of the critical path analysis. 	AOs (marks)	Total marks available
		AO4a (3)	3
Marking descriptors – All versions			
Note: where there is insufficient evidence to award a mark, a zero mark may be given			
Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	
1	2	3	
<p>Some mathematical concepts and calculations applied appropriately. (AO4a)</p> <p>Workings or techniques omitted as part of calculations, assumptions lack detail and full definition. Workings shown but calculation errors made / inaccurate execution. (AO4a)</p>	<p>A range of mathematical concepts and calculations applied. (AO4a)</p> <p>Working contains inaccuracies or could be more efficient (i.e., expressed in shorthand). Workings inconsistently shown. (AO4a)</p>	<p>Mathematical approaches and concepts applied fully and consistently. (AO4a)</p> <p>Calculations presented accurately and in correct format, workings shown and evidence of checking to ensure correct results (e.g., estimation workings, reverse calculation checks) (AO4a)</p>	

Grid 15: AO4b (English)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Technical brief (Task 1) • Notes detailing how the designs meet the brief requirement (Task 2) • Supporting statement for the programme of work (Task 3) • Presentation delivery (orally) and materials to support presentation (e.g. slides etc) (Task 4) 		
Indicative Content Version C	<p>The candidate's:</p> <ul style="list-style-type: none"> • use of appropriate and accurate English • clarity and articulateness of use of English to present information and ideas • accuracy of grammar, spelling and punctuation • use of terminology, which is technical and consistent with the intended audience • confidence in the use of language during verbal presentations, level of articulation and clarity in the delivery of information to summarise information/ideas. 	AOs (marks)	Total marks available
		AO4b (3)	3
Marking descriptors – All versions			
Note: where there is insufficient evidence to award a mark, a zero mark may be given			
Band 1 descriptor	Band 2 descriptor		Band 3 descriptor
1	2		3
<p>Evidence within task responses lacks structure where outcome is partially understandable. Communication style is generally appropriate to the outcome but has some inconsistencies across tasks. (AO4b)</p> <p>Meaning is clear, but the language is not always fluent. Grammar and/or spelling contain errors or inconsistencies. Audibility of oral presentation is inconsistent. (AO4b)</p>	<p>Evidence within task responses uses conventional structure which is understandable. Communication style is appropriate to the outcome across most tasks. (AO4b)</p> <p>Meaning is clear, language is fluent, although the response may contain colloquialisms or jargon etc. Grammar and spelling are mainly</p>		<p>Evidence within task responses uses a structure which makes it easy to fully understand. Communication style is appropriate to the outcome across all tasks. (AO4b)</p> <p>Meaning is clear, language is fluent and consistent across tasks. Grammar and spelling are consistently accurate across tasks. Deploys a range of grammatical</p>

Grid 15: AO4b (English)		
	accurate. Audibility of oral presentation is good. (AO4b)	constructions. Audibility of oral presentation is excellent. (AO4b)

Grid 16: AO4c (Digital)			
Guidance for markers	<p>Only the following evidence must be used to assess performance against this marking grid:</p> <ul style="list-style-type: none"> • Types of sources used for Research (Task 1) • CAD Drawing (Task 2) • Presentation of the programme of work (Task 3) • Presentation materials (slides, handouts, notes etc) (Task 4) 		
Indicative Content Version C	<p>The candidate's:</p> <ul style="list-style-type: none"> • selection of digital resources and the effective of the resource in meeting task requirements • application of features available within digital resources (e.g. formatting, layout, presentation modes, animations / transitions in presentation, application of CAD package features). • selection and use of software to support delivery of the presentation. • use of a range of digital options used across tasks, the extent to which they have been used to add value and their effectiveness of use. • use of current digital techniques, resources, and sources in adherence with industry practice, convention, and trends. • use of a digital presentation package such as PowerPoint (selecting appropriate images, videos and figures) 	AOs (marks)	Total marks available
		AO4c (3)	3
Marking descriptors – All versions			
Note: where there is insufficient evidence to award a mark, a zero mark may be given			
Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	
1	2	3	
Digital technology attempted as part of task responses. (AO4c)	Consideration and use of basic digital options / features to strengthen task responses throughout project across tasks. (AO4c)	Digital options applied effectively in line with industry practices / best practice, demonstrating use of range of technology features. Digital techniques used effectively to add value to task responses. (AO4c)	

Get in touch

City & Guilds Technicals Quality Team

We are here to answer any queries you may have regarding your T Level Technical Qualification delivery.

Should you require assistance, please contact us using the details below:

T: 0300 303 53 52 (Monday - Friday | 08:30 - 17:00 GMT)

E: technicals.quality@cityandguilds.com

W: [cityandguilds.com/tlevels](https://www.cityandguilds.com/tlevels)

The T Level is a qualification approved and managed by the Institute for Apprenticeships and Technical Education.

Copyright in this document belongs to, and is used under licence from, the Institute for Apprenticeships and Technical Education, © 2024. 'T-LEVELS' is a registered trademark of the Department for Education. 'T Level' is a registered trademark of the Institute for Apprenticeships and Technical Education. 'Institute for Apprenticeships & Technical Education' and logo are registered trademarks of the Institute for Apprenticeships and Technical Education.

We make every effort to ensure that the information contained in this publication is true and correct at the time of going to press. However, City & Guilds' products and services are subject to continuous development and improvement, and the right is reserved to change products and services from time to time. City & Guilds cannot accept responsibility for any loss or damage arising from the use of information in this publication.

The City & Guilds of London Institute. All rights reserved. City & Guilds is a trademark of the City & Guilds of London Institute, a charity established to promote education and training registered in England & Wales (312832) and Scotland (SC039576). City and Guilds Group Giltspur House, 5–6 Giltspur Street London EC1A 9DE