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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 CRF e.g. regarding level of support recorded and the band descriptors. Evidence contained on the CRF 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; i.e. all
 characteristics described by the band descriptor are seen or it strongly meet the level
 of performance described by the descriptor holistically:
 - o 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
 - o 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:

- o 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.

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:
• AO2a	o core knowledge
• AO2b	 core skills: i) planning and preparation e.g. interpret and confirm project requirements; plan and scope project (e.g. timescales, requirements, resources, cost); develop project plans ii) communication e.g. interpret, use and produce engineering representations and drawings (including graphical language or 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 e.g. design or devise a proposal to meet the brief, develop, model and revise concept(s) iv) evaluation e.g. 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 (e.g. quality, time, resources, cost).
AO3	Select relevant techniques and resources to meet the brief.
AO4	Use maths, English and digital skills as appropriate:
 AO4a 	o maths
 AO4b 	∘ English
• AO4c	o Digital.
AO5	Realise a project outcome and review how well the outcome meets the brief:
 AO5a 	 realise a project outcome – was the right outcome achieved
• AO5b	o 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				
2. Design	3	6	6	3	3	3	24				
3. Plan	3	6	6	3	0	0	18	3	3	3	
4. Present	3	6	6	3	3	3	24				
Total	12	21	24	12	6	6	81		9		90
AO marks	12	4	5	12	1	2	-		9		90
AO %	13.3%	50)%	13.3%	13.	3%	-		10%		100%

NB - AO2 collectively must be at least 50% (i.e. 45 marks).

1. Research

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- technical brief
- research notes
- list of references/sources.

	Ban	ıd 1 descri	ptor	Ban	and 2 descriptor Band 3 descriptor					AOs (marks)	Total marks available
Task 1	1	2	3	4	5	6	7	8	9	AO1	9
Research (Planning, core knowledge, selecting techniques and resource)	Indicative AO1 - The of the tech planned th aspects of AO2a - Th brief. The refining th selected a material fo material, t bollard an counting t the metho the ground	e Content - e candidate nnical brief neir researd f the task. (ne candidate accuracy of the bollard point and defined or the interrect the yield strict d how well he people wield of power d and any f	- Sample verbas planner and research. The conclarity of settles confider of the brief of the brief of the proper all structure ength or the who pass by supply is. The conclusion of the conclusion of the proper all structures ength or the conclusion of the conclusi	ersion ed their resect notes and sistency of ction reference and appropriate on tent in regressions of a sustance	earch. This d also in the coverage of nees to south or opriateners alation to so tion given it is tainable may be candidated by the candidated of the level at e's commence on the candidates on the candidates ance on the candidates ance on the candidates.	may be eviceir details of the technical rices of guidens of use of urces. Evidentask 1. Expaterial for the may involved the same of detail it is ents on the overall shape of the same overall shape overall shape of the same overall shape over the same overall shape of the same overall shape over the same overall shape of the same overall shape over the same overall shape of the same overall shape over the same overall shape over the same o	denced in the of research ap cal brief in rel dance and inc f terminology ence of the c ctent to which he bollard cas olve specifying ination of a li . The choice is specified to	coherence of proach and hation to requidustry standard within the technology and how appoints of the contrology and how appoints of the bounce for the contrology and how appoints of the bounce for the contrology and how appoints of the bounce for the contrology and how appoints of the bounce for the contrology and how appoints of the bounce for the contrology and the cont	f structure ow they red rds. hnical owing and e has her es of the for ropriate	(3) AO2a (3) AO3 (3)	

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Marking descriptors – All ver	sions			
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)	The application of core knowledge is referenced consistently for example in relation to technology, selection of bollard 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)		

	Band 1 d	lescriptor	Band 2 d	AOs (marks)	Total marks available					
Task 1	1	1 2 3 4 5 6								
Research	Indicative Con	icative Content – Sample version								
(Core skills)	the product des into a written ev counting technocandidate's effectarity and concare supported e	AO2b - The candidate's demonstration of judgement and reasoning in relation to the refinement of the product design specification given in task 1. The level of synergy of initial ideas for the bollard into a written evaluation covering required elements - the aesthetics, sustainable materials, people counting technology, method of lighting, power supply and foundation fixing for the bollard. The candidate's effectiveness of communication of refined technical requirements for the bollard – clarity and conciseness of delivery. Expression of ideas in written evaluation and level to which they are supported e.g. through inclusion of images and level of referencing to sources. Evidence of a planning in technical brief in terms of consistency and balance of response (time spent consistently on elements).								
	Marking descr	iptors – All vers	ions							
	Marking descriptors – All versions Some basic elements of core skills applied and evidenced consistently in task response - limited use of skills in relation to brief requirements. (AO2b) A range of core skills applied and comprehensively throughout task completion with 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

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- sketches/drawings
- associated calculations
- notes detailing how the design meets the brief requirements.

	Band 1 d	lescriptor	Band 2 descriptor Band 3 descriptor					Total marks available
Task 2	1	2	3	4	5	6	AO1 (3)	6
Design (Planned approach, selecting techniques)	AO1 - The cand will be evidence sections and de connection deta balance of cove working horizon different elemer. The balance to use of layout, sp. AO3 - CAD draw and annotations titling block. Asp practices/best p by the candidate.	ed in the layout of etails. Sketches a fail, materials, lighterage of points. A fatal impact force forts of the client but the level/amount pace etc in the sumings and sketches, clarity, quality a pects of the CAD oractice and use of e for the safe work.	ersion lanned their sketches and CAnd CAD drawings ting details etc) Elso, level of detail or the bollard. Horief together to proof detail included abmitted evidence are required for the drawings and sketches and resulting horizontal interences and resulting for the control of adopted scale.	AD drawings for the will include antice of planning provided of any and clearly the can oduce a believable in sketches/drawer. The bollard in Task the of a drawing frame of the present, he present, he presentation and inpact force on the setting force on the setting and inpact force on the setting force on the setting and inpact force on the setting and includes the setting and incl	ne bollard, into place properties in the consister assumptions reladed didate has planned and realistic bowings and content are for drawings and they relate to a format of calcular properties.	ans, elevations, of task 2 (e.g. ency and ted to the safe ed and fitted the ollard design. Addetail and the son convention and inclusion of industry ations prepared	AO3 (3)	

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Marking descriptors – All versi	ions			
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)		

	Band 1 d	Band 1 descriptor Band 2 descriptor Band 3 descriptor				escriptor	AOs (marks)	Total marks available		
Task 2	1	2	3	4	5	6	AO2a	6		
Design	Indicative Cont	tent – Sample ve	ersion				(6)			
(Core knowledge)	calculations. The CAD drawing, its proposed for the how well they m	2a - The candidate will apply core knowledge to the preparation of CAD drawings, sketches and culations. This will be evidenced by the choice of language used in any text on the sketches and D drawing, its technical level and consistency with the intended audience. The solutions posed for the design of the bollards on the sketches and CAD drawing will also be developed, well they meet industry guidance, have the potential to be implemented and their technical se. Approach to calculations, methods used and level of consideration of safety factors.								
	Marking descri	ptors – All versi	ons							
	Some elements knowledge draw evidenced - limit comprehension in relation to bride.g. brief require indicating lack of that area. (AO2a	on and ted of knowledge ef requirements ements omitted of knowledge of	Knowledge from core applied and relation to differe project brief. (AC	d evident in ent elements of	Core knowledge consistently thro response with m technical inaccu	oughout ninimal				
	Some links to the core knowledge judgements, but are not always of accurate. (AO2a	connections	Links to the app knowledge to just support judgeme some gaps or in Concepts explait clearly and corre	stify and ents, but with accuracies. ined/referenced	Connections be of core knowled strengthen argu demonstrate un (AO2a)	ments and				

	Band 1 d	escriptor	Band 2 c	lescriptor	Band 3 descriptor		AOs (marks)	Total marks available
Task 2	1	2	3	4	5	6	AO2b (6)	6
Design (Core skills)	Indicative Content – Sample version AO2b – How well the aesthetics, shape and ergonomic features of the bollard respond to the proposed location within a public realm space outside a station. The candidate's incorporation of the required aspects in the design – use of logical and synergised approach, consideration of aesthetics of end product bollard design. Use of proportion within bollard drawings – use of dimension and annotations on CAD drawings. How well sketches, CAD drawings and associated annotations communicate the materials from which the bollard is to be constructed and technology that is to be used to light, power and count people passing the bollard.							
	Marking descr Some elements drawn on and e within task resp use of skills in requirements. (evidenced oonse - limited relation to brief	A range of core and evident in in relation to di elements of pre (AO2b)	task response fferent	throughout task	lied consistently c completion with - re skills evidenced.		
	Design has limit shows superfict between different the brief. Representation and dimension, and (AO2b)	ial coherence ent aspects of esentations ally,	Design is logic some coherence different aspect Representation proportional and dimensioned wannotation. (AC)	ce between ets of the brief. ens are mostly end correctly evith significant	detailed cohere different aspec	ts of the design brief. is are proportional, limensions and		

	Band 1 d	lescriptor	Band 2 d	lescriptor	Band 3	3 descriptor	AOs (marks)	Total marks available
Task 2	1	2	3	4	5	6	AO5a (3)	6
Design (Realise outcome, review outcome)	design is and h bollard solution AO5b – Eviden indications on h bollard design of forward and dra notes on the Co	rpose' the bollard asibility of the specification – ly selection of a as been taken the and detail of	AO5b (3)					
	Marking descr	riptors – All ver	sions					
	Task response addresses som requirements. (e of the task	Task response aspects of the requirements. (task	•	fully addresses all task requirements.		
	Evaluation and clearly address task outcome n and lacks clarity reasoning in pla	s how well the net the brief y and	Evaluation and address how w outcome was a (AO5b)	ell the task	addresses how	and specifically		

3. Plan

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- programme of work
- supporting statement.

	Band 1 d	escriptor	Band 2 d	lescriptor	AOs (marks)	Total marks available		
Task 3	1	2	3	4	5	6	AO1 (3)	6
Plan (Plan approach, select techniques/ resources)	AO1 - The cand development and the program. Independent connections. AO3 - The cand required to consort The choice of regulation to the points consistency and consistency are consistency are consistency and consistency are consistency are consistency and consistency are consistency and consistency are consistency are consistency and consistency are consistency are consistency as a consistency are consistency and consistency are consistency are consistency are consistency and consistency are consistency are consistency and consistency are consistency a	didate's demonstrature of dependent	ersion of the programme of the bollard. The dencies between the eation of judgement e.g. moulding or re acturing methods design. Use of tect ess for intended a ure and clarity an	achievability and the different activities in the selection milling machine, and materials and terminologaudience. Inclusion	realism of the ovities, clarity and a n of the resource and level of reason the how appropriately with the support of techniques of	verall duration of accuracy of es that will be oning provided. e they are in riting statement deployed to	AO3 (3)	

Ban	nd 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available	
Marking d	Marking descriptors – All versions					
response of	oproach to planning, contains evidence of ne required elements.	Response contains required elements in logical order with consideration of deadline and layout. (AO1)	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)			
the selection resources contractors materials (be used. To not always	mited justification for ion of techniques, (e.g. equipment, rs), methods, and (including disposal) to The choices made are as the most effective or the for the prescribed ef. (AO3)	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)	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)			

	Band 1 d	escriptor	Band 2 d	escriptor	Band 3 d	lescriptor	AOs (marks)	Total marks available
Task 3	1	2	3	4	5	6	AO2a	
Plan	Indicative Cont	tent – Sample ve	ersion				(6)	
(Apply core knowledge)	AO2a - The candidate's application of core knowledge to the preparation of the programme of work plan and supporting statement. Choice of language used in any text on the programme of work plan and within the supporting statement, its technical level and consistency with the intended audience. Assumptions made relating to the in-house manufacture of the bollard, the fullness of their explanation in the supporting statement, their validity and alignment to accepted best practice in industry. The candidate's level of detail within explanation of the manufacturing standards applicable to the bollard and level of detail of current health and safety requirements that should be considered during the manufacturing process. The clarity of processes implemented to minimise waste during the manufacture of the bollard. 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.							
	Marking descriptors – All versions							
	Some elements knowledge refer plan - limited co knowledge and to brief requirem	renced within mprehension of skills in relation	Elements of cordirectly highligh referenced with knowledge evid have gaps or shmisunderstanding	ted in brief in plan – enced may low some	Knowledge from core applied an plan in relation elements of pro (AO2a)	d evident in to different		
	Supporting infor some links to th core knowledge judgements, but are not always accurate. (AO2a	e application of to support t connections clear and	Supporting infor links to the appl knowledge to ju support judgem some gaps or ir (AO2a)	ication of core stify and ents, but with	Connections be of core knowled explained withir information to s arguments and understanding.	the supporting trengthen demonstrate		

	Band 1 de	escriptor	Band 2 d	escriptor	Band 3 d	escriptor	AOs (marks)	Total marks available
Task 3	1	2	3	4	5	6	AO2b	6
Plan (Apply core skills)	Indicative Content – Sample version AO2b - The professionalism of the presentation of the programme of works and to what extent it is conveyed using industry standard notation and features. Use or recognised methods of presentation for the programme (e.g. Gantt Chart) and comprehensiveness of completion (e.g. tasks, milestones, resources and identification of critical path). How comprehensively the programme covers the activities required to complete the design, development and manufacture of the bollard. The structure, logic and coherence of the supporting statement and coverage of required considerations: • health and safety including risk assessment requirements • manufacturing standards • specialist equipment • waste management • assumptions relating to in-house manufacturing capabilities and resources.						(6)	
	Marking descri Some elements skill applied - lim	of each core	Elements of all	core skills ted in brief used	All aspects of all applied effective			
	of skills in practi brief requiremen	ce in relation to	efficiently and c throughout. (AC	onsistency	plan creation wi on to required o	th clear focus utcomes and o task elements		

4. Present

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- presentation materials (slides, handouts, notes etc)
- video recording of observation.

	Band 1 de	escriptor	Band 2 d	escriptor	Band 3 d	escriptor	AOs (marks)	Total marks available
Task 4	1	2	3	4	5	6	AO1 (3)	6
Present (Plan approach, select techniques/ resources)	Indicative Cont AO1 - The candi presentation (e.g within the presentation AO3 - The candi appropriate and use of other refe The candidate's contact with the	ent – Sample veridate's level of played containing an intation, a conclustion of the concentration of the concentr	ersion lanning in relation introduction to the sion, and an invital and application of e (e.g. use of slid Use of a digital prion-verbal commularity of speaking, tapping, paus	emselves, an introduction to ask quest of techniques for content of techniques for content of technication during content of technical vided is of the time with	ation. The logic are oduction to what we tions from the audience. (AO1 Techniques use presentation are well justified real the information	nd order of the will be covered dience). sentation, how on of handouts, roint, Prezi). Intaining eye straction n is organised, ogical in its elear that the intent has been erms of its.	AO3 (3)	

	Band 1 d	lescriptor	Band 2 d	lescriptor	Band 3 c	lescriptor	AOs (marks)	Total marks available
Task 4	1	2	3	4	5	6	AO2a	6
Present		tent – Sample v		I.			-	
(Apply core knowledge)	demonstration of and cover the key bollard. The level Express Limited of the bollard programmer and ted explanation of not candidate's effect explanation of the taken to make the force the bollard accuracy of the Trains Express	of judgements in ey features of the el to which the prod's design brief are esented. The prochnology deployemeasures taken to ectiveness of preshow these fit the she bollard vandal can resist, and candidate's respublic the use	the preparation of the bollard design a resentation defined explanations are sentations covered in the bollard to make the bollar sentation of the are station setting. The proof and explanation of hoonses to question of technical lang	the preparation of the presentation of the proposed as the challenges as to how these had age of details of to monitor human put a sustainable and esthetic and ergonation of the magnet withis was assess as presented by the uage (with consideralluencing the key should be appropriately as the consideral of the magnetic filluencing the key should be appropriately as the presented by the consideral of the should be appropriately as the presented by the consideral of the presented by the consideral of the presented by the presented	a, how well they a approach to man interpreted from ave been overcor he purpose and foresence. The call energy efficient nomic features of el of discussion conitude of the horised. The confider he assessor/manderation of target	re reasoned ufacture the within the Trains me in the design unction of the ndidate's The it the bollard and on the approach zontal vehicle nce and ager from audience) and		

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Marking descriptors – All vers	ions			
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)	Engineering concepts relating to the core knowledge and core skills are coherent throughout the presentation to meet the requirements of the brief set. (AO2a)	Engineering concepts relating to the core knowledge and core skills are coherent with clear justifications on how these are applied in response to the brief requirement. (AO2a)		
Terminology used may have inaccuracies and content provided may include inconsistencies and not clear to the targeted audience. (AO2a)	Terminology used is mostly accurate with minor errors. The content provided is in the most correct but does not always consider target audience or may be imbalanced or biased (e.g. to either technical or nontechnical focus). (AO2a)	Terminology used is accurate and error free. The content provided is clear and easily understood by the target audience, with no bias in tone or imbalance across audience type (where appropriate). (AO2a)		

	Band 1 d	escriptor	Band 2 d	escriptor	Band 3 d	lescriptor	AOs (marks)	Total marks available
Task 4	1	2	3	4	5	6	AO2b	6
Present (Apply core skills)	AO2b - How eff design – includi Clarity and size	ng fluency, clarity of images and fig	ersion idate's presentati y and conciseness gures, inclusion o nce the quality of	s. Professionalisr f labels, font size	n of slides/preser . The candidate's	ntation methods.		
	Marking descriptors – All versions							
	Communication concepts is som effective. The detective inform accuracy and claudience. (AO2	netimes elivery of ation may lack arity for the	There are minor the delivery of in	effectively most appropriate target audience. In inaccuracies in information lack of clarity in	Highly effective of engineering of appropriate for audience. Tech information is paccurately and clarity. (AO2b)	the target nical resented		

	Band 1 d	escriptor	Band 2 d	escriptor	Band 3 d	lescriptor	AOs (marks)	Total marks available
Task 4	1	2	3	4	5	6	AO5a	6
Task 4 Present (Realise outcome, review outcome)	Indicative Cont AO5a - The effetask 4 covering been overcome. Clarity of identifit additional aspectenhance a future AO5b - The clar specification. Indexplanation of hyproduct designs	tent – Sample von the challenges position of which a cits of research or the project outcome project outcome project outcome the candidate of the candidate of the candidate of the candidate specification briest aluation on ide		entation and how roduct design spewere or were not rework of researced design was to and review of the control how these have atures considere	fully it meets the ecification and ho satisfied. Reflection ch/design that wo be re-worked. Challenges of the e been overcome ases the requirement of by the candidate.	requirements of ow these have sons on uld improve or product design . Clarity of the te to be	AO5a (3) AO5b (3)	6

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Marking descriptors – All versi	ions			
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 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 (AO4)

Maths

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- sketches/drawings
- associated calculations.

	Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Tasks 1 – 4	1	2	3	AO4a	3
Maths	Indicative Content – Sample verage AO4a - The candidate's use of a determine the safe working horiz working factors and stated valid a use of numeracy to provide dime candidate's accuracy in calculation accuracy of completion of the critical content of the critical cont	(3)			
	Some mathematical concepts and calculations applied appropriately. (AO4a)	A range of mathematical concepts and calculations applied. (AO4a)	Mathematical approaches and concepts applied fully and consistently. (AO4a)		
	Workings or techniques omitted as part of calculations, assumptions lack detail and full definition. Workings shown but calculation errors made/inaccurate execution. (AO4a)	Working contains inaccuracies or could be more efficient (i.e. expressed in shorthand). Workings inconsistently shown. (AO4a)	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)		

English

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- technical brief
- programme of work
- supporting statement
- presentation materials (slides, handouts, notes etc).

	Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Tasks 1 – 4	1	2	3	AO4b (3)	3
English	English, number of grammatical, CAD drawings or within the supp	terminology within written nce. Candidate's confidence in the	(3)		
	Marking descriptors – All versi	-			
	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)	Evidence within task responses uses conventional structure which is understandable. Communication style is appropriate to the outcome across most tasks. (AO4b)	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)		
	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)	Meaning is clear, language is fluent, although the response may contain colloquialisms or jargon etc. Grammar and spelling are mainly accurate. Audibility of oral presentation is good. (AO4b)	Meaning is clear, language is fluent and consistent across tasks. Grammar and spelling are consistently accurate across tasks. Deploys a range of grammatical constructions. Audibility of oral presentation is excellent. (AO4b)		

Digital

Guidance for markers

The following evidence must be used to assess performance against this assessment objective:

- programme of work
- presentation materials (slides, handouts, notes etc)
- video recording of observation.

	Band 1 descriptor	Band 2 descriptor	Band 3 descriptor	AOs (marks)	Total marks available
Tasks 1 – 4	1	2	3	AO4c (3)	3
Digital	Indicative Content – Sample vera AO4c - The candidate's use of a presentation, internet research). appropriate (e.g. formatting, layor application of CAD package featers of tware. The range of digital operadd value and their effectiveness adherence with industry practice.	(6)			
	Marking descriptors – All versi				
	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

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

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