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1.1 September 2023	Front cover	Rebranded
	Throughout	Footers updated
	Back cover	Contact details added

Employer-Set Project assessment

Assessment objectives

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

	Assessment Objective
AO1	Plan their approach to meeting the project brief
AO2	Apply core knowledge and skills as appropriate
• AO2a	o core knowledge
AO2b	o core skills
	 i) communication e.g. providing information and advice to customers and / or wider stakeholders on the potential risks of a change to an industrial system, or making a presentation to a stakeholder on the implications of change ii) work collaboratively with other team members and stakeholders e.g. to develop content to bid for a construction project iii) applying a logical approach to solving problems, identifying issues and proposing solutions e.g. through setting criteria for successful implementation of a system, using cost / benefit analysis of the introduction of new procedures or equipment iv) primary research e.g. obtaining measurements related to a design and / or customer requirement.
AO3	Select relevant techniques and resources to meet the brief
AO4	Use maths, English and digital skills as appropriate
AO4a	o maths
• AO4b	o English
• AO4c	o digital
AO5	Realise a project outcome and review how well the outcome meets the brief
• AO5a	o realise a project outcome – was the right outcome achieved
AO5b	o review how well the outcome meets the brief, how well was the brief met, the quality of the outcome in relation to the brief

Employer-Set Project mark distribution

This table illustrates how the 100 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	A01	AO2a	AO2b	AO3	AO4a	AO4b	AO4c	AO5a	AO5b	Total
				Pa	art 1					
1.1 Research	2	3	0	2	0	0	2	0	0	9
1.2 Report	6	6	6	2	2	2	2	0	0	26
1.3 Project plan	4	10	6	2	2	0	0	0	0	24
1.4 Presentation	2	6	6	2	0	2	0	0	0	18
Total	14	25	18	8	4	4	4	0	0	77
				Pa	art 2					
2.1 Collaborative problem-solving	0	6	5	2	0	0	0	2	0	15
2.2 Evaluation	0	0	0	0	0	4	0	0	4	8
Total	0	6	5	2	0	4	0	2	4	23
AO	AO 14 54		4	10 16				(100	

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 candidates response, and the band descriptors
- · 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 meets 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

- 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.

Marking grids

Task 1.1

Indicative content

Typical evidence may include:

Details of researched SMART technology in relation to the tender requirements including details of costings, components, manufacturers, suppliers, components, installation considerations.

Collated visual resources - pictures, images, diagrams, sketches etc.

Projects or buildings where technologies have been used successfully or have been considered and the benefits of their use in those contexts.

Legislation and regulations would directly or indirectly impact on the selected SMART technology e.g. health and safety, training requirements, reporting etc.

Details of advantages and disadvantages, potential risks or 'red flags' – indication of potential future issues or benefits of technology inclusion.

Details of information that would be required but has not yet been possible to source.

List of sources or referenced sites/materials.

Location of the project should not have an impact on marking, for example Scottish/Welsh/NI legislation are acceptable.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band '	1 descr	iptor	Band 2 descriptor Band 3 descriptor					AO	Total marks available	
Task 1.1	1	2	3	4	5	6	7	8	9	AO1	9
Research	planned research order all Some extended but focusing than an on envi	dge refe us may b nced and d on one nother (e ronment s more th	ich to is lack nisation. i of Core renced be it more area .g. focus al	collation or planned and The application to referencing safety con Evidence of used and indifferent so	to research finformation and organise ation of Core is referencedly for examplegislation/rg and health siderations. Of a range of eferenced, ources consideration and coreing	n is d. Te sed ole in regulation, n and of sources with sidered.	prior to and information methodical a research an Systematic research collist of source standards. Core knowled the brief requimpacts on leading to the environment benefits, law installation as	and thorough a d information of and comprehe and comprehe anducted, includes in line with a difference applied in uirements including performation benefits, firm and maintenary and maintenary.	search and ar evidence of approach to gathering. ensive ding detailed industry all areas of luding - costs, mance, nancial related to ace.	AO2a AO3 AO4c	
				in the sour			installation a	and maintenar a full range of n-traditional s	rce. f sources		

- Research notes
- Record of sources

Task 1.2

Indicative content

Typical evidence may include:

Health and Safety, advantages and disadvantages of chosen technology, an evaluation of the building scale and type and the impact technology would have.

Relating to water conservation technologies - applicable building regulations, technology impact on building performance, environmental/financial impacts, town and country planning.

Relating to electricity producing technologies and heat producing technologies - applicable building regulations, town and country planning, permitted development requirements, technology impact on building performance, environmental/financial impacts.

Use and application of maths in timing calculations / critical path analysis, calculations and comparisons of costings, estimations etc.

Digital skills are considered alongside maths and English skills in the AO4 grid. Appropriate digital skills are dependent on the task requirements and do not necessarily need to include images, charts, diagrams, etc. To achieve top band, Digital techniques must be used effectively to add value.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descr	iptor	Band 2 descr	Band	d 3 desc	cripto	AO	Total marks available		
Task 1.2	1	2	3	4		5		6	AO1	6
Report	Evidence of a papproach to me which has some Most required e present and disother.	eeting brief, e structure. elements are	Evidence of a papproach to me which has a cle required eleme and distinct from	eeting brief, ear structure. All nts are present	planr brief, clear elem distin	which has structure ents are	oach to as a loo e. All re presen each ot	meeting gical and equired t and her and in		

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1	descrip	otor	Band	2 descr	iptor	Band 3 descriptor			Band 4	4 descr	iptor	AO	Total marks available
Task 1.2	1	2	3	4	5	6	7	8	9	10	11	12	AO2a	12
Report	knowled skills dra evidence limited of of know in relation requirer Some ling applicate knowled skills to judgement reasoning	lements of dge and Coawn on an ed within comprehe ledge and comments. This is to the sign of Coalge and Coaupport ents, but and accurate and accurate ledge and coaupport ents and accurate and accurate ledge and coaupport ents and accurate ledge and coaupport ents and accurate ledge accura	Core nd report - ension d skills f re Core	knowled skills so evident comp knowled may has show so misund relation required Links to of Core so and su judgent some (still some (still show) and su judgent show) and show) a	derstanding to brief to brief to brief to the appearments to just pport to page or racies in	Core y n report n of skills or ng in blication dge and stify	from a applied in report from report accura Judger logical compro of reast throug	inks appesearch astrated and are te. ments a with ehensive coning hout.	e Core vident ation to ents of colled are in the re e lines	Core sk consister respons technic Connect element knowled skills ex strength and del underst Thorout links from demonstreport at Judgen with con	se with nal inacculotions be to of Cooding and exploited then argumonstrate and are and are and are and are and are and are are mpreher reasonic	ied oughout ninimal uracies. etween re Core to uments te detailed arch are n the accurate. e logical nsive	AO2b	

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descriptor	Band 2 descriptor	AO	Total marks available
Task 1.2	1	2	AO3	2
Report	Information sources may not be fully exploited and may be applied inconsistently in response to meeting the brief with only limited sources used. Some techniques and/or sources selected from those available to respond to brief requirements.	Techniques and sources used effectively to respond to requirements of the brief. All available techniques and sources reviewed and compared to ensure those selected most effectively and efficiently meet all aspects of brief requirements.		

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descr	riptor	Band 2 descr	riptor	Band 3 descrip	ptor	AO	Total marks available
Task 1.2	1	2	3	4	5	6	AO4a	6
Report	Some, limited r		A range of mat		Mathematical ap		AO4b	
	concepts and c (e.g. estimating etc) applied ap	g, measuring	concepts and capplied with coachieved.		concepts applied consistently with consideration of checking working	accuracy and	AO4c	
	Response lang typographical in which indicate or a less struction	mprecisions limited proofing	Working may b longhand/inefficexpressed and inconsistently s	ciently workings	correct results. English is clear a throughout responsion	and eloquent		
	A digital option attempted as p though use ma presentation of	art of response y hinder	Evidence of attempts to follow language conventions, spelling and grammar – response may contain colloquialisms, jargon or incorrect terminology etc. Consideration and use of		used with considend user and ind conventions. All available digit considered and a effectively in line standards. Digita	dustry tal options applied with industry		
			basic digital op strengthen resp	tions to	used effectively t			

The following evidence must be used to assess performance against the assessment objectives within this task.

• Report – including sources/references

Task 1.3

Indicative content

Typical evidence may include:

Details of the key stages of the project in reference to the chosen environmental technologies to include design, installation, commissioning, system handover.

Optimising work processes and engaging with relevant mathematical/logical thinking. Consideration should be given on how the programme of works is presented to others.

Details of the trades required for each chosen technology including any specialist contractors that may be required for installation of the technologies, for example rainwater harvesting would require plumber, groundworker, electrician.

Details of risks or potential 'pressure points' and how they could be avoided or minimised, for example delays to material orders or lack of qualified and suitable staff to complete key tasks.

Supporting statement detailing current site health and safety requirements, how materials are moved on a construction site.

A list of specialist equipment required to complete all tasks.

Details of proposed waste management plans in line with the Site Waste Management Plans Regulations.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	award		escriptor	Band 4 de	scriptor	AO	Total marks available			
Task 1.3	1.3 1 2 3		3	4	5	5 6		7 8		8
Project plan	containing e some of the elements. There is limiting justification of resources (equipment, emethods, and (including dispense).	ted for the techniques, e.g. contractors), id materials sposal) to e choices ot always the ve or for the project brief.	of deadline. Techniques resources (equipment, contractors) from those are respond to trequirement choices may mostly accurately acc	logical onsideration and/or e.g. , selected available to the brief its. The de are grate and for the project brief.	Clear evid planning considerated layout. Selection of techniques resources equipment contractors methods a materials (disposal) a accurate, appropriated justification meeting pubrief. Considerated health and aspects fur	ion of of s, (e.g. c, s), nd including are e, with some as to oject tion of all	Logical and approach to evidence of plan that is i industry star effectively p There is a d justified app selection of (e.g. equipm contractors) and materia disposal). To made are ad appropriate prescribed pr	plan with a detailed n line with ndards and rioritised. etailed and roach to the resources nent, methods is (including the choices ccurate and for the project brief. on of all safety with erence to	AO3 AO4a	

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band	1 desc	criptor		Band 2 descriptor		Band 3 descriptor			Band 4 descriptor				AO	Total marks available			
Task 1.3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	AO2a	16
Project plan	knowle referen plan - compr knowle relatio	edge an nced wit limited ehensic	d skills ef	skills ect	knowl highlighter reference plan - evide gaps	- knowl nced m	lirectly n brief vithin pl ledge nay hav v some	'e	acro appl in pr relat	iss the ied are of th	ge from e Core nd evi plan i o diffe of pro	e ident in rent	consist project inaccilinated Connection elements knowledge full er effect demo	stently ot with ouracies ections ents of	between Core exploited plan s and ng full	nical en	AO2b	

- Programme of work plan
- Supporting statement

Task 1.4

Indicative content

Typical evidence may include:

Details of the candidate's chosen environmental technology and how the selection is appropriate for use in the project in relation to building layout and applicable regulations.

Advantages and disadvantages of chosen technology detailing why it is credible and relevant to this project and the project brief.

Details of the candidate's chosen SMART technology and how it is appropriate for use in the project in relation to building layout and applicable regulations to include SMART heating and SMART lighting controls. Reference should also be made to the advantages of using the SMART controls.

Aspects of the presentation to consider (presentation skills are considered in the AO1/3/4b mark grid):

- Appropriateness for audience (eg language, terminology, acronyms)
- Basic body language, speed, clarity
- Reading slide content verbatim vs elaborating on slide content

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descr	iptor	Band 2 descr	iptor	Band 3 desc	riptor	AO	Total marks available
Task 1.4	1	2	3	4	5	6	AO1	6
Presentation	The presentation		The presentation		The presentati		AO3	
	structure and defollow a logical to ineffective plant. Technique used	approach due anning.	and follows a lo most of the time the task becaus planning.	in response to	structured and approach. It is presentation had considered in the audience as a	clear that the as been terms of its	AO4b	
	presentation is effective. Howe information is n	sometimes ver technical	Techniques use presentation are effective. The te	e mostly	detailed and effective planning.			
	Terminology us inaccuracies ar provided may ir	eed may have nd content	information provaction accurate most of valid reasoning. Terminology us	of the time with	presentation a	sed to deliver the re effective with easoning behind n provided.		
	grammatical ind and therefore n targeted audier	ot clear to the	accurate with m The content pro most grammatic does not always target audience	ovided is in the cally correct but s consider	and error free. provided is cle- grammatically	ar,		

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				AO	Total marks available
Task 1.4	1	2	3	4	5	6	7	8	9	10	11	12	AO2a	12
Presentation	to the C Core sk the pres not alw directly required Communications and the effective technications	Core know kills convice the converse of the co	oncepts owledge veyed th n - these accurate o the brid sometim delivery c nation materity for	and rough may or be ef eepts ees of ay lack	Theories and concepts relating to the Core knowledge and Core skills are coherent throughout the presentation to meet the requirements of the brief set. Concepts and theories 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.				to the Core so clear juthese at to the Best Highly community and the targinformatic control of targinformatic control of targinformatic control of targinformatic control of targinformati	es and come kills are applicated are application effective unication eories is get audication is pately and	owledge coherer ons on h ed in res uiremen en of cond approprience. Te oresente	ot with ow sponse t. cepts riate for echnical	AO2b	

- Presentation materials e.g. slides, handouts
- Research notes
- Report including sources/references
- Video recording or presentation
- Assessor observation record

Task 2.1

Indicative content

Typical evidence may include:

A comparison of advantages and disadvantages of both contractors.

Risks to the project.

Recommended a contractor of choice with justifications and factors considered including timing, cost and staff capacity.

How students collaborate to solve the issue.

Structure, layout and flow of email draft (evidence content).

Style of communication both written (draft email) and verbal (discussions).

Each candidate will be awarded marks in terms of both their contribution to the discussion and email draft. As part of this, in awarding marks a judgement will be made on how the candidate has collaborated with other group members in discussions.

insufficient evidence to award a mark, a zero mark may be given		i ues	cripto			Band 2 descriptor					Band 4 descriptor					AO	Total marks available
Task 2.1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	AO2a	15
Collaborative				utions n			•		through			s of cor			<u> </u>	AO2b	
problem-				gh may rgumen					ns. Me the isรเ		discussions were high throughout all points of the task.					AO3	
solving				ay lack				t, logica			ibutions						
	techni	correct and thought through most					solving the problem were logical,				AO5a						
		ions lim	nit progi	ress of t	the	of the time so progress in the task was made but not always					methodical, and well thought						
	task.					timely		de but i	iot aiwa	ays	through. All technical information was accurate, resulting in						
	Comm	nunicati	ion skill	s were	not		•				effective and timely progress						
				and wou		Comm	nunicati	ion skill	s are		being made.						
				rlevels					clear m								
				ners wa					gness t		Communication skills are well						
	_	•	ing on p	orogres	s of	discuss some details in other's					developed and clear. Asks						
	the tas	SK.				contributions that supports progress in the task. Levels of					probing questions of others in the						
	Evider	nce cor	ntent la	cks stru	cture				. Leveis hers wa		group that brings about details that supports effective progress						
			nited in		cture,						in the task. Levels of						
				sed in t	he	generally consistent throughout.				engagement are high with an							
		t is not		Evidence content is structured,					indication of wanting to take the								
	propos	flows and mostly addresses the					lead throughout but in a										
	the iss	issues raised in the task.					measi	ured wa	ay.								
					Proposed methods will go some way to addressing these issues in the task and have some form					Evidence content is structured,							
						V				torm	flows and clearly addresses all issues raised in the task.						
						or rea	soning	to then	٦.								
											Proposed methods for addressing the issues are effective and well justified.						

- Written discussion notes
- Draft email
- Video recording of discussion
- Observation record (notes on contributions to discussion)



Task 2.2

Indicative content

Typical evidence may include:

A reflective account to include: weaknesses, strengths, areas for improvement, what they would do better next time, how well the assessment went in terms of meeting the brief.

Reflection on effectiveness and success of responses across project tasks.

Considered analysis and evaluation of project outcome.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 de	escriptor	Band 2 de	scriptor	Band 3 des	criptor	Band 4 des	scriptor	AO	Total marks available
Task 2.2	1	2 3 4			5	6	7	8	AO4b	8
Evaluation	The evaluation not clearly how well the outcome mand lacks of reasoning in the outcome limited in the outcome limi	address he project het the brief clarity and hin places. ck of detail he project hked to the hts of the	The evaluation addresses how well the project outcome was achieved. There is some reason and justification in how effectively the brief was met. Detail provided on how the project outcome linked to the requirements of the brief with some explanation and reasons.		well the proje was achieved detailed reas how success project brief v	ve and ddresses how ect outcome d. There is oning behind fully the vas met. ed on how the me linked to ents of the ailed and	comprehens specifically a well the project the brief. The reasoning be successfully brief was me successful a Evaluations	addresses how ect outcome irements of ere is detailed whind how the project et, what was nd why. made are d reflective of	AO5b	

The following evidence must be used to assess performance against the assessment objectives within this task.

Evaluation account



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.

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