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# 2. Employer-set project assessment

## 2.1.1. Assessment objectives

The employer-set project is assessed against five assessment objectives. 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
	<ul> <li>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</li> <li>ii) work collaboratively with other team members and stakeholders eg to develop content to bid for a construction project</li> <li>iii) applying a logical approach to solving problems, identifying issues and proposing solutions eg through setting criteria for successful implementation of a system, using cost / benefit analysis of the introduction of new procedures or equipment</li> <li>iv) primary research eg obtaining measurements related to a design and / or customer requirement.</li> </ul>
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	<ul> <li>review how well the outcome meets the brief, how well was the brief met, the quality of the outcome in relation to the brief</li> </ul>

## 2.1.2. 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	AO 1	AO2 a	AO2 b	AO 3	AO4 a	AO4 b	AO4 c	AO5 a	AO5 b	Tota I
	'	<u> </u>			art 1			u		
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
				Р	art 2					
2.1 Collaborativ e 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	14	5	4	10		16	•	(	6	100

## 2.1.3. 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; ie all characteristics
  described by the band descriptor are seen or it strongly meets 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
- Maker 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 (eg 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 (eg 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.

## 3. Marking grids

#### 3.1.1. Task 1.1

#### **Indicative content**

### Typical evidence may include:

Types of development work that are covered by notifiable works, detail of regulations for example - CDM regs, HSE regs, manual handling etc.

Legislation and regulation details, versions and amendments – sources, guidance available, potential implications of non-compliance with legislation (e.g. cases of non-compliance, fines/recourse etc.). Building Regulations Part F (Ventilation) and L (Conservation of Power)

Impacts relating to this specific development, with examples from similar projects, accounts, articles etc. – impacts in terms of costs, renewable solutions, Also consideration of possible opportunities and any advantages of early identification/planning, actions to be taken etc. Drainage solutions. Sustainability and zero carbon targets.

Projects or buildings where notifiable works legislation and requirements have been successfully considered, with details of how etc.

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

List of sources or referenced sites/materials including legislation.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band '	1 descr	riptor	Band 2	descripto	r	Band 3 desc	AO	Total marks available		
Task 1.1	1	2	3	4	5	6	7	8	9	AO1	9
Research	planned research order a organis Some e core kn referen may be and mo one are (e.g. for environ	elements cowledge ced but imbalar ore focus ea than a cus on mental s more t	s of focus nced sed on another	collation of planned at The application to legislation references sources or the consister of the consister	n/regulationng and hean nsideration of a range	on is sed.  ore nced mple in n, alth and as. e of erent	and throughout collation – clear thorough apprint information gas comprehensive including detaindustry stand.  Core knowledge brief requirement on building perbenefits, finant related to instance.	nents fully consider the research and ar evidence of neoach to research athering. System re research conditional source are applied in all ents including ents including ents including ents including all benefits, law allation and main full range of source traditional source.	information nethodical and th and natic and ducted, es in line with  areas of the costs, impacts fronmental ws/regulations ntenance.	AO2a AO3 AO4c	

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

• Research notes

#### 3.1.2. Task 1.2

#### **Indicative content**

Typical evidence may in	nclude: Sp	pecific to thi	s version:
-------------------------	------------	----------------	------------

The written report, must cover the following areas:

Does the plan meet the latest design, planning and building regulations, and does it respond to the Future Homes Standard consultation?

What consideration has been given to sustainability, renewable technologies and associated costs?

Exploration of notifiable works across different areas of the building project, gas, electrical and the impacts of these on the development, e.g. notification requirements, certification, use of qualified personnel. Identification of common and specific risks to project.

Use and application of maths in estimating costs of renewable solutions per housing unit.

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	criptor	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 expresent 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	brief, which had clear structure elements are	pach to meeting as a logical and a. All required present and each other and in		

Note: where there is insufficient evidence to award a mark, a zero mark may be given	ard			Band 2 descriptor			Band 3 descriptor			Band 4 descriptor			AO	Total marks available
Task 1.2	1 2 3			4	5	6	7	8	9	10	11	12	AO2a	12
Report	Some elements of core			Most el	ements o	of core	Knowle	edge an	d skills	Core kr	nowledge	and	AO2b	
	knowledge and core			knowled	dge and	core	from a	cross th	e core	core ski	ills applie	ed		
	skills drawn on and			skills sp	ecifically	/	applied	l and ev	/ident	consiste	ently thro	ughout		
	evidenced within report -			evidend	ed withir	n report	in repo	rt in rela	ation to	respons	se with m	inimal		
	limited comprehension			- comprehension of			differer	nt eleme	ents of	technical inaccuracies.				
	of know	ledge and	d skills	knowled	dge and	skills	project brief.							
	in relation	on to brie	f	may ha	ve gaps	or		Connections between						
	requirer	ments.		show some			Clear li	nks app	olied	elements of core				
				misunderstanding in		from research are		knowledge and core						
	Some lii	nks to the	)	relation to brief			demonstrated in the			skills exploited to				
	applicat	ion of cor	e	requirements.			report and are			strengthen arguments				
	knowled	dge and c	ore				accurate.			and der	monstrate	Э		
	skills to	support		Links to	the app	lication	Judger	nents a	re	underst	anding.			
	judgeme	ents, but		of core	knowled	ge and	logical	with						
	reasoning is not always			core sk	lls to jus	tify and	compre	ehensiv	e lines	Thoroug	gh and d	etailed		
	clear and accurate.		te.	support judgements,		of reas	oning		links fro	m resea	rch are			
				but with some gaps or		throughout.		demonstrated in the						
				inaccuracies in					report and are accurate.					
				reasoni	ng.					Judgem	nents are	logical		

	Concepts	with comprehensive	
	explained/referenced	lines of reasoning	
	clearly and correctly.	throughout.	

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	Techniques and sources used effectively to		
	and may be applied inconsistently in response	respond to requirements of the brief.		
	to meeting the brief with only limited sources			
	used.			
		All available techniques and sources reviewed		
	Some techniques and/or sources selected	and compared to ensure those selected most		
	from those available to respond to brief	effectively and efficiently meet all aspects of		
	requirements.	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 descr	riptor	AO	Total marks available
Task 1.2	1	2	3	4	5	6	AO4a	6
Report	Some, limited n	nathematical	A range of matl	hematical	Mathematical a	pproaches and	AO4b	
	concepts and c	alculations (eg	concepts and c	alculations	concepts applie	ed fully and	AO4c	
	estimating, mea	asuring etc)	applied with co	rrect solutions	consistently wit	:h	7.040	
	applied approp	riately.	achieved.		consideration of	of accuracy and		
					checking worki	ngs to ensure		
	Response lang	uage contains	Working may b	e incorrect or	correct results.			
	typographical ir	mprecisions	longhand/ineffic	ciently				
	which indicate I	imited proofing	expressed and	workings	English is clear	and eloquent		
	or a less structu	ured approach.	inconsistently s	shown.	throughout resp	oonse with		
					minimal/no erro	ors. Language		
					used with cons	ideration of		
	A digital option		Evidence of atte	empts to follow	end user and ir	ndustry		
	attempted as pa	•	language conve	entions,	conventions.			
	though use may presentation of		spelling and gra	ammar –				
	presentation of	тезропзе.	response may	contain	All available dig	gital options		
			colloquialisms,	jargon or	considered and	d applied		
			incorrect terminology etc.		effectively in lin	e with industry		
					standards. Digi	tal techniques		
					used effectively	/ to add value.		

Consideration and use of	
basic digital options to	
basic digital options to strengthen response.	

- Report including sources/references
- Does the report follow the suggested guide.
- Is it well structured?
- Does the report include the following:
- How the current design specification meets current planning, building regulations and also incorporates the key elements of the Government policy on design of homes for the future.
- What energy saving measures have been incorporated and what renewable technologies could be adopted to provide a greater benefit to the "Green Revolution".

## 3.1.3. Task 1.3

#### **Indicative content**

Typical evidence may include: Specific to this version:

A Health and Safety Plan showing site rules and induction processes.

A typical site rules and induction processes plan that would be included in a Construction Phase Plan that should demonstrate a sound knowledge of the requirements of planning of a construction site.

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		Band 4 descriptor		AO	Total marks available
Task 1.3	1 2		3	4	5	6	7	8	AO1 AO3	8
Project plan	Limited appropriate of the required the required There is liming the justification selection of techniques, (e.g. equipment contractors and material (including of the best of the most of the most of appropriate prescribed brief.	ning f some of d elements.  nited for the f, resources ment, ), methods, als disposal) to he choices not always fective or e for the	Plan contained elegical order consideration deadline.  Techniques resources equipment contractors from those to responding requirement choices may mostly accurately	ements in er with on of sand/or (e.g. s), selected available to the brief of the are urate and er for the	Clear evice planning considerar layout.  Selection technique resources equipmer contracto methods materials (including disposal) accurate, appropriate some just to meetin brief.	of es, s (e.g. ot, rs), and are te d with difications	industry state and effective prioritised.  There is a contractors and material (including of the selection o	o plan with f a detailed in line with andards vely  detailed d approach ction of (e.g. b), methods als disposal). s made are and	AO4a	

Consideration of some	Consideration of all		prescribed project
health and safety	health and safety	Consideration of	brief.
aspects.	aspects in limited	all health and	
	detail.	safety aspects	Consideration of all
		fully.	health and safety
			aspects fully with
			relevant reference to
			impacts and
			implications

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band	1 desc	riptor		Band	and 2 descriptor Band 3 descriptor					Band 4 descriptor				AO	Total marks available		
Task 1.3	1	2	3	4	5	5 6 7 8					11	12	13	14	15	16	AO2a	16
Project plan	knowl refere plan - compl knowl relatio	elemeledge all nced well limited rehension to brice ements	nd core rithin pr on of nd skill ef	e skills roject	know highli refere proje know may show	ghted enced ct plan ledge have g	directly in brie within - eviden paps or	f nced	acro app evid plan diffe	oss the lied and lied	Ige from the content of the content	ect n to ents	consi proje techn Conn eleme know full er effect demo	stently ct with nical in ection ents of ledge nsuring tivenes	no accura s betw f core exploit g plan ss and ing full	ghout acies. veen ted in	AO2b	

- Health and safety plan, related to typical CDM and Construction Phase Plan.
- Supporting statement

#### 3.1.4. Task 1.4

#### Indicative content

Typical evidence may include: Specific to this version:

Coverage of the required elements of the presentation as identified in the task outline:

Design and planning considerations with a view to also consider renewable technologies. Possible research might include National Design Guide, Planning Portal, Design and Tools.gov.uk, Energy Savings Trust and other resources based around renewables information.

Candidates own ideas on challenges as represented within the project specification in relation to their research, experience and own thoughts/suggestions.

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 descr	iptor	AO	Total marks available
Task 1.4	1	2	3	4	5	6	AO1	6
Presentation	The presentation	n lacks	The presentation	n is structured	The presentation	on is detailed,	AO3	
	structure and do	oes not always	and follows a lo	gical approach	structured and	logical in its	AO4b	
	follow a logical	approach due	most of the time	e in response to	approach. It is	clear that the	7.045	
	of ineffective pla	anning.	the task because	se of effective	presentation ha	is been		
			planning.		considered in to	erms of its		
	Technique used	d to deliver the			audience as a ı	esult of		
	presentation is	sometimes	Techniques use	ed to deliver the	detailed and ef	fective		
	effective. Howe	ver technical	presentation are	e mostly	planning.			
	information is n	ot always	effective. The te	echnical				
	complete and a	ccurate.	information prov	vided is	Techniques use	ed to deliver the		
			accurate most of	of the time with	presentation ar	e effective with		
	Terminology us	ed may have	valid reasoning		well justified rea	asoning behind		
	inaccuracies an	nd content			the information	provided.		
	provided may in	nclude	Terminology us	ed is mostly				
	grammatical inc	consistencies	accurate with m	ninor errors.	Terminology us	sed is accurate		
	and therefore n	ot clear to the	The content pro	vided is in the	and error free.	The content		
	targeted audien	ice.	most grammation	cally correct but	provided is clea	ar,		
			does not always	s consider	grammatically of	correct and		
			target audience	·.	easily understo	od by the target		
					audience.			

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 desci	AO	Total marks available		
Task 1.4	1	2	3	4	5	6	7	8	9	10	11	12	AO2a	12
Presentation	to the core sketche present the present th	unicatior eories is e. The d al inform cy and c	wledge a reyed thr n - These accurate to the brid n of cond sometimalelivery condition material	and ough e may or be ef eepts ees of aay lack	to the core sk through meet the brief second community of the temperature audientinaccurinformatics.	ots and tunicated ime in an or the ce. There racies in ation which clarity in	wledge a coherent presenta ements heories effective n approp target e are mil the deliv ch cause	and ation to of the are ely most oriate nor very of	to the core skeeper sk	core kno cills are of astification are appli prief required effective unication eories is get audion ation is p	wledge a coherent ons on he ed in res uirement	epts ciate for echnical	AO2b	

- Presentation materials e.g. slides, handouts
- Research notes
- Report including sources/references
- Video recording or presentation
- Observation record
- Would expect a PowerPoint presentation outlining key summary points of design and specification and any new proposals around renewables including key costs
- Solar PV installation 6k 11k depending on system, payback in approx.10 years depending on tariff.
- Solar hot water installation 5-6k
- Air source heat pump installation £5,000 as the base cost, and then an additional £500 per kilowatt.
- Ground source heat pump installation They are expensive to install and require adequate space with the cost of installation around £1,500-£2,000 per kilowatt.
- Biomass, wind turbine and hydro power are not really feasible. Water recycling systems may also be considered.

#### 3.1.5. Task 2.1

#### Indicative content

Typical evidence may include: Specific to this version:

Potential flooding and Potential drainage options to overcome the issue.

Consideration of how the various sustainable drainage solutions work.

Discussing the range of options that should include:

- source control methods that decrease the volume of water entering the drainage/river network by intercepting run-off water on roofs for subsequent re-use (e.g. for irrigation) or for storage and subsequent evapotranspiration (e.g. green roofs)
- pre-treatment steps, such as vegetated swales or filter trenches, that remove pollutants from surface water prior to discharge to watercourses or aquifers
- retention systems that delay the discharge of surface water to watercourses by providing storage within ponds, retention basins or wetlands, for example
- infiltration systems, such as infiltration trenches and soakaways, that mimic natural recharge, allowing water to soak into the ground
- Permeable drives, road surfaces that prevent build-up of surface water.

Lessons that would be learned for future planning/projects.

General communication and problem solving.

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. When awarding marks a judgement will be made on how the candidate has collaborated with other group members in discussions.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band		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	Some	active	contrib	utions i	nade	Active	ly cont	ributed	through	nout	Levels of contributions to					AO2b	
problem-	to disc	cussion	althou	gh may	lack	the task to discussions. Methods					discus	ssions v	were hi	gh		AO3	
solving	logical	structu	ure of a	ırgumeı	∩t.	proposed in solving the issue					throughout all points of the task.						
	Ideas	put for	ward m	ay lack	some	were relevant, logical, technically					Contri	butions	and re	esponse	es to	AO5a	
	techni	cal acc	uracy a	and on		correct and thought through most					solvin	g the p	roblem	were lo	ogical,		
	occasi	ions lim	nit prog	ress of	the	of the time so progress in the					metho	odical, a	and we				
	task.	task was made but not always					through. All technical information										
		timely.					was accurate, resulting in										
	Comm						effective and timely progress										
	always	s appro	priate a	and wo	uld	Communication skills are					being made.						
	speak	over o	thers o	r levels	of	appropriate and are clear most of											
	engag	ement	with otl	hers wa	as low	the time with a willingness to					Communication skills are well						
	again	impact	ing on լ	progres	s of	discuss some details in other's					developed and clear. Asks						
	the tas	sk				contributions that supports					probing questions of others in the						
						progre	ess in th	ne task	. Levels	of	group	that br	ings ab	out det	tails		
	Evidence content lacks structure,					engag	jement	with ot	hers wa	as	that s	upports	effecti	ve prog	gress		
	flow a	nd is lir	nited in	how it		gener	ally cor	nsistent	withou	t.	in the	task. L	evels c	of			
	meets	the iss	sues rai	ised in	the						engag	gement	are hig	h with	an		
	task. I	t is not	clear th	nat the		Evide	nce cor	ntent is	structu	red,	indica	tion of	wanting	g to tak	e the		
	propos	sed me	thods v	will add	ress	flows and mostly addresses the					lead throughout but in a						
	the iss	sue.				issues raised in the task.					measured way.						
						Proposed methods will go some											

way to addressing these issues	Evidence content is structured,	
in the task and have some form	flows and clearly addresses all	
of reasoning to them.	issues raised in the task.	
	Proposed methods for	
	addressing the issues are	
	effective and well justified.	
	in the task and have some form	in the task and have some form of reasoning to them.  flows and clearly addresses all issues raised in the task.  Proposed methods for addressing the issues are

- Written discussion notes
- Drafted email
- Video recording of discussionsObservation notes on contributions to discussions

## 3.1.6. Task 2.2

## **Indicative content**

## Typical evidence may include:

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	criptor	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 reasoning in the outcome limited requirements or the function of the function o	address le project let the brief clarity and in places.  ck in detail project inked to the its of the	The evaluate addresses in the project of was achieved some reason justification effectively the was met.  Detail proviet the project of linked to the requirement brief with some explanation reasons.	now well butcome ed. There is n and in how the brief ded on how butcome ests of the time.	well the proje was achieved detailed reaso how success project brief v	ve and ddresses how ct outcome d. There is oning behind fully the vas met.  ed on how the me linked to ents of the ailed and	The evaluation comprehensive specifically as well the project met the requipant the brief. The reasoning below successfully to brief was met successful and the quality and effectiveness outcome.	ddresses how ct outcome rements of re is detailed hind how the project that, what was and why.	AO5b	

- Evaluation account
- Has the guide been followed?Is it well structured?



#### 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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