

Contents

Contents	
Employer-Set Project assessment	
Assessment objectives	3
Employer-Set Project mark distribution	4
General marking approach	
Marking grids	6
Task 1.1	6
Task 1.2	8
Task 1.3	12
Task 1.4	15
Task 2.1	18
Task 2.2	21

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	AO1	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	14	5	4	10		16		(3	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
 - 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:

Use of resources available with efficient methods employed, such as identification of key internet sites rather than falling into advertising traps when researching via search engines.

Logging all resources used and good notation and collation of renewable technologies/water conservation technologies and removal of non-relevant information.

Notes showing evidence of chosen types of technology including benefits dimensions, aesthetics, noise levels (where relevant) consumption or sources.

Site service provisions researched including health and safety, potential locations, their advantages and limitations.

Total cost of infrared taps for all basins shown on the plan.

AO1 Examples include: Evidence of research coverage. Range of products researched, and all information collated.

AO2 Examples include: Research of points including costs, dimensions and suitability for site, site requirements.

AO3 Examples include: Evidence of systems allowing integration or installation on building.

AO4 Examples include: Logical approach to research.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band	1 desc	riptor	Band 2	descriptor		Band 3 de	escriptor	AO (marks)	Total marks available	
Task 1.1	1	2	3	4	5	6	7	8	9	AO1	9
Research	planne	evidence d appro ch, resu	ach to	collation	n to research of informatio and organise	n is	prior to and and informa	ements fully on the contract of the contract o	esearch – clear	(2)	
	order a organis				cation of Co je is referend		thorough a	f methodical a pproach to res gathering. Sy	earch and	AO2a (3)	
	Core k	element nowledg nced but	je	relation to	ntly for exam o legislation/ ng and healt	regulation,	conducted,	ehensive rese including deta line with indus	ailed list of	AO3	
	_	e imbala ore focu		safety co	nsiderations		standards.			(2)	
	one are	ea than r		used and	of a range of referenced, sources cons	, with	of the brief	ledge applied requirements.		AO4c	
					ills applied curcing and co		provided.	f a full range o	DI DITEI	(2)	

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

- Research notes
- Record of sources

Task 1.2

Indicative content

Typical evidence may include:

Options available for siting the technology and associated external equipment.

The effects on performance of the technology

Health and Safety implications of installing ground collectors including environmental considerations.

Decommissioning and isolation requirements of the building services including electrical, water, gas. Report to include waste management for removed materials

The long-term benefits to the client from the use of other conservation technologies (taps and flushing).

Cost of infrared taps for all basins shown on the plan.

AO1 Examples include: Detailed coverage of points including types of technologies meeting the brief and relevant detail contained in report. **AO2 Examples include** Linking chosen technology to the site constrains and user's needs linking key advantages and limitations to the brief. Logical approaches and solutions to potential risks or problems.

AO3 Examples include: Recommendations meet the needs of the site and are suited to the site based on the information researched and site dimensions and constraints.

AO4 Examples include: Use of mathematical skills, handling data and space constraints detailed on drawings including measurements. Use of language including technical, where necessary, for the chosen technology. Digital skills used in formatting, layout and production of report.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descr	riptor	Band 2 descriptor Band 3 descriptor			AO (marks)	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.	Evidence of a papproach to me which has a cle required eleme and distinct from	eeting brief, ear structure. All nts are present	Evidence of a replanned appropriet, which has clear structures elements are placed distinct from earling in line with industandards.	ach to meeting s a logical and All required resent and ach other and	(6)	

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descriptor			Band 2 descriptor			Band	Band 3 descriptor			4 descr	iptor	AO (marks)	Total marks availabl e
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	elements of dge and Cawn on a sed within comprehe eledge and on to brie ments.	Core nd report - ension d skills	knowle skills specified evident report - compre knowle	lements dge and pecificall ced withi ehension dge and live gaps	Core y n of skills	from a applied in report to diffe	edge an cross th d and ev ort in rela erent ele ect brief	ne Core vident ation ements	Core sk consist through	nout resp nimal te	ied oonse	(6) AO2b (6)	

	Some links to the application of Core knowledge and Core skills to support judgements, but reasoning is not always clear and accurate.	show some misunderstanding in relation to brief requirements. Links to the application of Core knowledge and Core skills to justify and support judgements, but with some gaps or inaccuracies in reasoning.	Clear links applied from research are demonstrated in the report and are accurate. Judgements are logical with comprehensive lines of reasoning throughout. Concepts explained/referenced clearly and correctly.	Connections between elements of Core knowledge and Core skills exploited to strengthen arguments and demonstrate understanding. Thorough and detailed links from research are demonstrated in the report and are accurate. Judgements are logical with comprehensive lines of reasoning throughout.		
--	--	---	---	--	--	--

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descriptor	Band 2 descriptor	AO (marks)	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	Techniques and sources used effectively to respond to requirements of the brief.	(2)	
	used.	All available techniques and sources reviewed and compared to ensure those		
	Some techniques and/or sources selected from those available to respond to brief requirements.	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 desci	riptor	Band 2 descri	ptor	Band 3 descri	AO (marks)	Total marks available	
Task 1.2	sk 1.2 1 2		3	4	5 6		AO4a	6
Report	Some, limited reconcepts and of (e.g. estimating etc) applied applied appropriate proofing or a leapproach. A digital option attempted as personse though hinder presents response.	calculations g, measuring propriately. uage contains mprecisions limited ss structured considered or art of gh use may	A range of math concepts and ca applied with corrachieved. Working may be longhand/ineffic expressed and vinconsistently shallow the language convespelling and graresponse may colloquialisms, jincorrect terminal consideration a basic digital optistrengthen responders	eincorrect or iently workings nown. Impts to follow ntions, mmar — ontain argon or ology etc. Ind use of ons to	Mathematical ap and concepts ap and consistently consideration of and checking we ensure correct relations throughout responsion with considered with considered user and inconventions. All available digit considered and effectively in line standards. Digital used effectively	oplied fully with accuracy orkings to esults. and eloquent onse with rs. Language deration of dustry tal options applied e with industry al techniques	(2) AO4b (2) AO4c (2)	

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:

The programme of works will need to include:

- Key stages of the installation of the heat pump
- Installation of water conservation technologies
- Duration
- The order in which activities will be completed and their dependencies

Provide a supporting statement to justify your plan, taking into consideration the following planning aspects of the project:

- Specialist plant requirements for the installation of the collector circuit.
- On or off-site storage for the BSE materials and equipment.
- Health and safety (safe working practices relating to safe isolation and working in excavations).
- Provision of electrical, heating and water supplies.
- Waste management for the BSE materials and equipment.
- Suggested logical approach to undertaking the agreed works.

A Gantt chart or equivalent programme of works must be provided for evidence to be marker higher than band 1 for AO1/3/4a, as it would not meet the requirement for logical planning.

AO1 Examples include: Consideration and planning of all aspects involved in the contract from start to commissioning. Consideration towards all equipment requirements. Access and egress decisions considered.

AO2 Examples include: Linking strategies for facilities to site constraints such as transportation, services, lifting/locating. Effective research and holistic view of all site activities and how the specialism chosen fits the plan and where appropriate, solutions given to potential clashes or delays. Logistics considered and managed.

AO3 Examples include: Logical sequence of events considered. Justifications on decisions made regarding equipment, supply chain, and storage solutions.

AO4 Examples include: Use of data analytics.

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 de	escriptor	Band 4 des	Band 4 descriptor		Total marks availabl e
Task 1.3	1	2	3	4	5	6	7	8	AO1	8
Project plan	Limited app plan contain evidence of the required. There is limit justification selection of techniques, (e.g. equipment contractors and material (including domain the most eff appropriate prescribed brief. Consideration health and saspects.	ning f some of d elements. hited for the for the fresources ment, himmethods, als hisposal) to he choices ot always fective or for the project hon of some	Plan contain elements in order with consideration deadline. Techniques resources (equipment, contractors) from those are requirement choices may mostly accurately a	and/or e.g. In selected evailable to the brief ts. The de are urate and for the broject on of all safety	Clear evide planning consideration layout. Selection of techniques, resources (equipment, contractors) methods ar materials (ii disposal) an accurate, appropriate supported vijustifications meeting processions of the literal appropriate supported vijustifications app	on of f e.g.), nd ncluding re with some s to oject brief. on of all safety	Logical and approach to evidence of plan that is in industry start effectively properties of the prope	plan with a detailed in line with indards and rioritised. etailed and roach to the resources, indicated are disposal). made are disposal brief. on of all afety with erence to	(4) AO3 (2) AO4a (2)	

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band	1 des	script	or	Banc	d 2 des	cripto	or	Band 3 Band 4 descriptor descriptor						AO (marks)	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	Some Core k Core s within limited of kno skills in require	knowle kills re project comp wledg n relat	edge and eference of the plan	nd ced - sion	knowl highliq refere project knowl may h some	ents of olded dents of the dent	irectly brief rithin - videnc ps or s		acro app in pr rela	oss the lied a roject tion to the lieu to	ge fron e Core nd evid plan in o differ of pro	e dent n ent	Knowl consist project technic Connect eleme knowle full en effecti demorant understand the consistence of th	etently t with cal ina ections nts of edge of suring venes nstrati	throuno no accura s betw Core exploit plan s and ng full	ghout icies. reen red in	(10) AO2b (6)	

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

- Programme of works
- Supporting statement

Task 1.4

Indicative content

Typical evidence may include:

Presentation featuring all points in the brief including:

- The benefits of ground source heat pumps
- The proposed installation of the collector circuit
- Technologies relating to water conservation
- The long-term benefits of energy conservation for the client
- Minimising disruption during the project

How responses to questions were delivered, including clear and informative responses. Responses - using techniques to check audience understanding.

AO1 Examples include: Clear distinctions between technology choices and how well they meet the project brief. Use of digital skills to provide a layout and formatting of presentation that highlights key areas. Pitched at correct level.

AO3 Examples include: Logical approach and good use of language to be informative but technical where required.

AO4 Examples include: Detailed and structured presentation.

AO2 Examples include: Linking performance, look (aesthetics), dimensions, and method of mounting. Logical approach to problems and risks. Effective research and holistic view of all technologies and how the chosen one fits the brief and, where appropriate. Communication techniques suitable for audience with clear delivery. Problems highlighted and communicated with techniques for gauging understanding of audience, such as Q&A. Coherent answering of questions showing understanding of the subjects.

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 AO (mark				AO (marks)	Total marks available
Task 1.4	1	2	3	4	5	6	AO1	6
Presentation	The presentat structure and always follow approach due planning. Technique use the presentation sometimes effections.	does not a logical to ineffective ed to deliver on is fective.	The presentation and follows a log most of the time the task because planning. Techniques use presentation are effective. The teinformation prov	gical approach in response to e of effective d to deliver the mostly chnical	The presentation structured and lo approach. It is considered in terms and in the audience as a redetailed and effect planning.	ogical in its lear that the s been rms of its esult of ective	(2) AO3 (2)	
information is not always complete and accurate. Terminology used may have inaccuracies and content provided may include grammatical inconsistencies and therefore not clear to the targeted audience.		accurate most o valid reasoning. Terminology use accurate with minor the content promost grammatic does not always target audience.	ed is mostly inor errors. vided is in the ally correct but a consider	the presentation with well justified behind the information provided. Terminology use and error free. To provided is clear grammatically contained and easily understood target audience.	are effective direasoning mation ed is accurate the content of th	(2)		

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band	1 desc	riptor		Band 2 descriptor				Band 3 descriptor				AO (marks)	Total marks available
Task 1.4	1	2	3	4	5	6	7	8	9	10	11	12	AO2a	12
Presentation	relating knowle convey presen always directly require Commutant the effective technice	y to the 0 dge and red throu tation - 1 be accu- inked timents. unication eories is re. The oral cal inform	l Core sl	kills ay not be lef cepts nes of lay	to the C Core sk through meet th brief ser Concep commun of the tin manner audience inaccura informa	e require ts and the nicated of me in ar for the the cacies in tion whice	wledge coherent oresents ements effective appropriate are mitthe delivent cause	and ation to of the are are ly most riate nor very of	relating knowle are col justifica are apply the brief Highly communand the for the Techni presen	es and co g to the Co dge and herent with ations on olied in re effective unication eories is target au cal inforrated accu- ed with co	Core skith clear how the esponse ement. of concapproprudience mation is grately a	kills ese e to cepts riate	(6) AO2b (6)	

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

- Presentation materials e.g. slides, handouts
- Video recording of presentation
- Observation record

Task 2.1

Indicative content

Typical evidence may include:

A comparison of advantages and disadvantages of the options.

Discussions relating to all of the options

Discussion on recommendations based on analysis of both options

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.

Examples include: Contribution to discussion with reasoned and balanced views. Keeping discussion relevant to the tasks at hand and not being distracted by irrelevant factors. Communication skills are clear, precise with knowledge through research. Good questioning used where doubt may exist. Structured email with digital skills displayed in terms of formatting and presentation. Outcome realised and solutions provided that meet project requirements.

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 (marks)	Total marks availabl e	
Task 2.1	1 2 3 4 5					6	7	8	9	10	11	12	13	14	15	AO2a	15
Collaborative problem-solving	Some active contributions made to discussion although may lack logical structure of argument. Ideas put forward may lack some technical accuracy and on occasions limit progress of the task. Communication skills were not always appropriate and would speak over others or levels of engagement with others was low again impacting on progress of the task. Evidence content lacks structure, flow and is limited in how it meets the issues raised in the task. It is not clear that the proposed methods will address the issue.					the task to discussions. Methods proposed in solving the issue were relevant, logical, technically correct and thought through most of the time so progress in the task was made but not always timely. Communication skills are appropriate and are clear most of the time with a willingness to discuss some details in other's contributions that supports progress in the task. Levels of engagement with others was generally consistent throughout. Evidence content is structured, flows and mostly addresses the issues raised in the task. Proposed methods will go some way to addressing these issues in the task and have some form of reasoning to them.					discuss all poin Contrib solving method through was ac effective being recommended by that suthe tass are high wanting through way. Eviden flows a issues Propose	sions water of the putions of the putions of the produced, a condition of the pution o	tribution vere higher task. and resolvent on well echnical, resultitions of effectivels of eran indicate the least in a number of the test of eran indicate the test in a number of effective effect	sponse were lo though I inform ng in orogres others out deta e progregagen cation cead neasure structured resses ask. or addr	es to original, and the nation is sell in the nation in the nent of the need, is all ressing	(6) AO2b (5) AO3 (2) AO5a (2)	

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

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

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.

Examples include: all tasks fully considered with honest and justified accounts reflected in line with the brief of the project task including all outcomes. Use of language, including technical, presentation, and displays digital skills including format and layout.

If no links to the candidate's performance in relation to the brief are included, the response is limited to band 1.

Note: where there is insufficient evidence to award a mark, a zero mark may be given	Band 1 descriptor		Band 2 descriptor		Band 3 do	escriptor	Band 4 de	escriptor	AO (marks)	Total marks availabl e
Task 2.2	1	2	3	4	5	6	7	8	AO4b	8
Evaluation	The evaluat not clearly a well the projoutcome me and lacks cl reasoning in. There is lac on how the outcome linit requirement brief success not.	ect et the brief arity and n places. k of detail project ked to the es 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.		how well the outcome we will be reasoning successful brief was n	asive and addresses are project as achieved. etailed behind how by the project net. ided on how outcome ents of the etailed as and	is comprehe specifically how well the outcome me requiremen brief. There reasoning be successfully brief was m was success why. Evaluations accurate an of the qualit	addresses e project et the ts of the is detailed behind how the project et, what esful and made are ad reflective	(4) AO5b (4)	

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.

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

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, © 2023. '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



