HM Government

T-LEVELS

T Level Technical Qualification in Maintenance, Installation and Repair for Engineering and Manufacturing

Employer-Set Project (8730-033)

Marking Grid

(Autumn 2025)

Version 1.0

City & Guilds | eal

Version and date	Change detail	Section
1.0	Version used for Marking	

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General marking approach

The following process details at high level the steps that will be undertaken by the external markers following the submission of candidate's submitted evidence.

Candidate evidence includes work produced by the candidate such as notes, reports, plans or drawings. As well as other generated evidence which demonstrates the candidate's performance such as the video of a presentation or notes of the Q&A session following the presentation. Only certain pieces of evidence should be considered for certain marking grids. The evidence which should be considered for a marking grid will be clearly outlined in the 'Guidance to markers' section.

Process

- Marker reviews the administrative paperwork for the candidate which includes:
    - Evidence checklist
        - **Has this form been completed fully?**
        - **Does it highlight any evidence which has not been uploaded?**
        - **Does the checklist align to the evidence available in the system?** – if no, make a note of this, mark the tasks which do have all evidence, Save, then flag as an Error making clear what is missing.
    - Declaration of Authenticity
        - **Has this been signed by the candidate and the provider?** – if no, make a note of this, mark the evidence, Save, then flag as an Error making clear that the DoA is not signed.
        - **Does it detail any support the candidate was given during the assessment which should be taken into consideration when marking?** – if yes, flag to supervisor and your assessment contact.

- Marker attempts to open/play all evidence files and checks the following:
    - Does the evidence contain a header form where the candidate details align to the candidate details in the marking platform?
    - Does all the evidence open/play?
    - Do the video files have clear sound? – if no, make a note of this, mark the tasks where evidence is available, Save, then flag as an Error making clear what is wrong.

- Marker begins 'marking' starting with the first marking grid and working through them in order.

- Marker must consider what the marking grid is trying to assess by:
    - noting what candidate evidence must be taken into consideration for this marking grid.
    - reading through the indicative content and familiarising themselves with the 'lens' they should be evaluating the candidates work through in relation to the prescribed assessment objective(s) the marking grid is assessing.

  reading the band descriptors, noting how the descriptors differentiate performance between bands.

- Once familiar with the requirements of the marking grid the marker will:
    - scan/read the candidate's evidence that is relevant to that marking grid.
    - make an initial judgement on the level of performance the candidate has demonstrated taking all the relevant evidence for that grid into consideration.
    - allocate the marking band the candidate's performance best aligns to.

- Once the initial assessment is made, the marker needs to determine how well aligned the candidate's performance is to the band descriptor. The marker will:
    - review the relevant candidate evidence against the initially allocated band descriptor in more detail.
    - determine how well the candidate aligns to the band by placing them into one of the four levels of alignment detailed below:
        A. The candidate is **securely** in the band (ie meeting the band descriptor(s) fully).
        B. The candidate is **largely** meeting the band with most of the descriptor(s) met, but some may not be fully met.
        C. The candidate is **partially** meeting the band with some of the descriptor(s) met, but some may not be met.
        D. The candidate **does not align** to the descriptor(s) within the band.

- To help determine how well the candidate aligns to the band, the marker will consider the four levels of alignment in detail, taking into account:

A. If the candidate's performance is **securely** in 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). To confirm the correct band has been assigned, the marker will also check the descriptor for the band 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.

B. If the candidate's performance is **largely** meeting the band. To confirm the correct band has been assigned the marker will:
    - check the descriptor for the band above
    - check the descriptor for the band below

    If there are only a few concerns with the initially allocated band, and the performance is not showing characteristics aligning with the higher or lower bands, the appropriate mark is likely to be in the middle range.

C. If the candidate's performance is **partially** meeting the band. To confirm the correct band has been assigned the marker will:
    - check the descriptor of the level below.
    - decide on a suitable mark either:
        - at the bottom of the initial band as some characteristics shown, or
        - at the top of the lower band if it better describes the quality of performance being shown.

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

- Once the appropriate band has been identified, where the band covers a range of marks, the marker will determine a final mark awarded from that band. Marks are evenly distributed across the bands:
    - if the quality of candidate performance fully aligns with 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.

To support this decision, the marker will consider the quality of a range of similar responses (eg responses reviewed during standardisation, or experience as they move through candidate's scripts) 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.

Follow-through errors

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.

Evidence should be considered within the constraints of the relevant marking grid, focusing on the knowledge and skills to be demonstrated as outlined in the indicative content. For example, if the candidate does not research suitable options in Task 1, when they get to 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 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	○ core knowledge
• AO2b	○ core skills i) **Analysing and interpreting** – Evaluate and confirm the brief with reference to context, objectives and constraints (eg requirements, resources, precedents, technical issues, costs, health and safety, regulations, possibilities) ii) **Planning and preparation** – Propose and plan key activities, stages, methods, processes, techniques, documentation, resources (including types of tools and equipment) and risk assessments iii) **Developing responses** – Propose maintenance, installation and repair processes for achieving specific objectives and quality outcomes, using relevant techniques, and technology, within limits of own authority iv) **Evaluating and quality assuring** – Investigate components and systems, to gather and evaluate relevant evidence and data, and to confirm the suitability of processes, actions and outcomes (including quality control and quality assurance activities) v) **Communication and presentation** – Record, report, communicate and present plans, proposals, processes, issues, risks and outcomes to both technical and non-technical audiences, across a range of suitable formats and media (e.g. diagrams; physical and digital records, presentations).
AO3	Select relevant techniques and resources to meet the brief
AO4	Use Maths, English and digital skills as appropriate
• AO4a	○ Maths
• AO4b	○ English
• AO4c	○ 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	○ 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 90 marks for the Employer-Set Project are distributed against the tasks and mapped to each assessment objective. These have been set by subject matter experts and employers and will support the comparability between versions of the Employer-Set Project over time.

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

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

1. Research

<table>
<tr><th colspan="4">Grid 1: AO1, AO2a, AO3 Research (Planning, core knowledge, selecting techniques and resource)</th></tr>
<tr><td>Guidance for markers</td><td colspan="3">Only the following evidence must be used to assess performance against this marking grid:
• Research notes which should include a list of sources/references</td></tr>
<tr><td rowspan="2">Indicative Content</td><td>AO1 – Plan their approach to meeting the project brief
The candidate's:
• approach to investigating potential solutions.
• structure of the research notes.
• analysis of the system specification and the issues outlined in the task, and how consistent/balanced the consideration of each of these are in comparison to each other, specifically:
○ a minimum of 2 suitable induction motors for the lift
○ tolerances, components, operating parameters, calibration requirements for the lift induction motor
○ estimated cost of all services:
• the induction motor
• installation and labour
• miscellaneous expenses (wiring, connectors, etc.)
○ the preventative maintenance requirements of the lift induction motor (frequency, how to carry out maintenance) as part of the routine maintenance
○ any equipment, materials or resources needed to carry out the lift induction motor removal and installation, and their cost
○ any relevant diagrams of existing lift systems
○ approximate calculation of the safety factor of the cables used in the lift system
○ approximate calculation of the deformation of the cables under the maximum load using Hooke's Law
○ health and safety considerations (potential risks and hazards) including laws and regulations that apply to the lift induction motor removal, installation and testing.
• clarity of references to sources of guidance and industry standards.</td><td>AOs (marks)
AO1 (3)
AO2a (3)
AO3 (3)</td><td>Total marks available
9</td></tr>
</table>

	AO2a – Apply core knowledge
	The candidate's:
	• confidence and appropriateness of use of terminology.
	• interpretation of the information found within research and the accuracy of how this has been applied into addressing the demands of the research task.
	• accuracy of the contents of their research:
	  ○ evidence of the candidate narrowing and refining the component specification given
	  ○ candidates provided details on research of technology to meet the specification supplied by the client - to include components selected, specifications of components, pricing, manufacturers and suppliers and installation, commissioning/testing requirements
	  ○ research on current installations within similar environments, installed and commissioned, considering advantages and limitations of the current installations
	  ○ detail of health and safety considerations related to the environment, system and equipment.
	• evaluation of different maintenance options and how this links back to the specifics of the specification and brief from client.
	
	AO3 – Select relevant techniques and resources to meet the brief
	The candidate's:
	• range of techniques/sources used to carry out research (such as the number of websites and the types of websites the candidate has used).
	• consideration of the relevance and reliability of the sources used during research.
	• ability to apply the findings from the research to address the demands of the brief.
	• range of potential solutions/options.
	• clarity of solutions, and how closely, they are derived from brief guidance and researched information.
	• references to sources of from research of guidance and/or industry standards.
	• use of pictures, drawings, schematics, specifications, and sketches alongside prose to communicate their initial design concepts.		

Marking descriptors – All versions Note: where there is insufficient evidence to award a mark, a zero mark may be given								
Band 1 descriptor			**Band 2 descriptor**			**Band 3 descriptor**		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Some evidence of a planned approach to research. (AO1) Some elements of core knowledge referenced but focus may be imbalanced and more focused on one area than another. (AO2a) Research techniques and resources clear as part of evidence submission. (AO3)			Approach to research and collation of information shows planning and consistency. (AO1) Core knowledge applied in most areas of the brief requirements for example in relation to technology, regulations and development of initial ideas. (AO2a) Evidence of a range of techniques and resources used and referenced, with different source types considered. (AO3)			Requirements of the brief are considered consistently throughout the research and information collation – clear evidence of methodical and thorough approach to research and information gathering. (AO1) Core knowledge applied in all areas of the brief requirements including - technology, regulation etc, and idea summation. (AO2a) Evidence of comprehensive research techniques, use of resources, and full range of sources. All sources fully detailed and presented fully and consistently. (AO3)		

<table>
<tr><th colspan="6">Grid 2: AO2b Research (Core Skills)</th></tr>
<tr><td>Guidance for markers</td><td colspan="5">Only the following evidence must be used to assess performance against this marking grid:
• Research notes which should include a list of sources/references</td></tr>
<tr><td rowspan="2">Indicative Content</td><td colspan="3" rowspan="2">AO2b – Application of core skills
Core skills being assessed:
• Analysing and interpreting:
○ the candidate’s demonstration of judgement and reasoning in relation to the review of the requirements from the brief and the content within the report.
○ the candidate’s effectiveness of communication of requirements for the lift induction motor and servicing options as outlined in the brief – clarity and conciseness of response.
○ expression of ideas in written evaluation and level to which they are supported eg through inclusion of images and level of referencing to sources.
• Planning and preparation:
○ evidence of planning in the research notes in terms of consistency and balance of response (time spent consistently on elements).</td><td>AOs (marks)</td><td>Total marks available</td></tr>
<tr><td>AO2b (6)</td><td>6</td></tr>
<tr><td colspan="6">Marking descriptors – All versions
Note: where there is insufficient evidence to award a mark, a zero mark may be given</td></tr>
<tr><td colspan="2">Band 1 descriptor</td><td colspan="2">Band 2 descriptor</td><td colspan="2">Band 3 descriptor</td></tr>
<tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr>
<tr><td colspan="2">Some basic elements of core skills drawn on and evidenced within task response - limited use of skills in relation to brief requirements. (AO2b)</td><td colspan="2">A range of core skills applied and evidenced consistently in task response in relation to different elements of project brief. (AO2b)</td><td colspan="2">Core skills applied consistently and comprehensively throughout task completion with - full range of core skills evidenced. (AO2b)</td></tr>
</table>

2. Report

Grid 3: AO1, AO3 Report (Planned approach, selecting techniques)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Written report** - which includes the preventative maintenance schedule • **Annotated drawing(s)** – showing the chosen lift induction motor, location of parts and system layout.		

Indicative Content	**AO1 – Plan their approach to meeting the project brief**
	The candidate's
	• level of detail, annotations and accuracy in the drawing(s).
	• adherence to industry/best practice when presenting the schedule (ie it's layout).
	• consistency and balance of coverage of points including the level of detail provided of any assumptions related to the lift induction motor as detailed in the task specifically:
	  ○ how clearly the candidate has planned and fitted the different elements of the client brief together to produce a believable and realistic response.
	  ○ the balance to the level/amount of detail included in report/drawings and content/detail and the use of layout, space etc. in the submitted evidence.
	• planning and fitting the different elements of the brief together to produce a correct response.
	• level of detail provided of any assumptions related to the brief.
	
	AO3 – Select relevant techniques and resources to meet the brief
	The candidate's
	• layout, use of space and conformance to industry standard with drawing
	• drawing skill; it's accuracy, attention to detail and clarity, use of symbols, abbreviations, and annotations clearly and in line with industry standards.
		AOs (marks)
		AO1 (3)
		AO3 (3)
			Total marks available
			6

Marking descriptors – All versions

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

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Some evidence of a planned approach to task, response may lack detail and drawing information. (AO1)		Approach to report and drawings is planned, organised and complete. (AO1)		Approach to report and drawing is fully comprehensive and in line with standard industry practices/best practice. (AO1)	

Some relevant techniques used in the preparation and presentation of drawings and associated information. (AO3)	Relevant techniques used throughout the preparation and presentation of drawings and associated information. (AO3)	Preparation and presentation of drawings and associated information is fully in line with industry conventions showing the use of all correct techniques. (AO3)

Grid 4: AO2a Report (Core Knowledge)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Written report** - which includes the preventative maintenance schedule • **Annotated drawing(s)** – showing the chosen lift induction motor, location of parts and system layout.		

Indicative Content	**AO2a – Apply core knowledge**
	The candidate's
	• accuracy of using ~~of~~ technical terminology.
	• technical accuracy and soundness of their proposed solution for the maintenance schedule:
	  ○ how it aligns to industry guidance
	  ○ have the potential to be implemented and their technical sense and level of consideration of safety.
	• contextualisation of the removal and installation of the lift induction motor and preventive maintenance to the specific needs of the client and specification outlined in the project brief. This should include:
	  ○ the lift induction motor you have chosen and why
	  ○ how your preferred lift induction motor meets the brief requirements, including any advantages and limitations
	  ○ removal and installation requirements including access to the site
	  ○ the equipment and resources needed to carry out the activities
	  ○ proposed preventative maintenance schedule
	  ○ calculation of the safety factor of the cables used in the lift system
	  ○ calculation of the deformation of the cables under the maximum load using Hooke's Law
	  ○ cost estimate of the replacement and installation of the new lift induction motor, and any additional components required
		AOs (marks)
		AO2a (6)
			Total marks available
			6

	○ health and safety regulations, including a risk assessment connection and link between knowledge and understanding of the task requirements. • technical accuracy of the annotated diagram for the selected lift induction motor, the inclusion, and use of relevant information such as symbols, conforming to recognised industrial standards.		

Marking descriptors – All versions

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

Band 1 descriptor		**Band 2 descriptor**		**Band 3 descriptor**	
1	**2**	**3**	**4**	**5**	**6**
Some elements of core knowledge drawn on and evidenced - limited comprehension of knowledge in relation to brief requirements eg brief requirements omitted indicating lack of knowledge of that area. (AO2a) Some links to the application of core knowledge to support judgements, but connections are not always clear and accurate. (AO2a)		Knowledge from across the core applied and evident in relation to different elements of project brief. (AO2a) Links to the application of core knowledge to justify and support judgements, but with some gaps or inaccuracies. Concepts explained/ referenced clearly and correctly. (AO2a)		Core knowledge applied consistently throughout response with minimal technical inaccuracies. (AO2a) Connections between elements of core knowledge exploited to strengthen arguments and demonstrate understanding. (AO2a)	

Grid 5: AO2b Report (Core skills)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Written report** - which includes the preventative maintenance schedule • **Annotated drawing(s)** –showing the chosen lift induction motor, location of parts and system layout.		
AO2b – Application of core skills Core skills being assessed: • Analysing and interpreting o judgement and reasoning in relation to the removal and installation requirements from the brief and the content within the report. o interpretation of the requirements set out in the brief and the specification and consideration of how this impacts the schedule (ie the hotel operates 24/7, located in the city centre, with guests accessing the lifts throughout the day and night; the hotel is open and busy with only the faulty lift being shut down) • Planning and preparation o how well the report has been planned out to respond to the demands of the task o inclusion of the removal and installation requirements within the report o the inclusion of drawings to support written content. • Developing responses o incorporation of the required aspects in the response – use of logical and synergised approach to requirements o evidence of proposed ideas developing to show why they selected the lift induction motor. • Communication and presentation o effectiveness of communication of refined technical requirements for the system- clarity and conciseness of delivery o expression of ideas in a written report.		**AOs (marks)** **AO2b (6)**	**Total marks available** **6**
Marking descriptors – All versions Note: where there is insufficient evidence to award a mark, a zero mark may be given			
Band 1 descriptor	**Band 2 descriptor**	**Band 3 descriptor**	

1	2	3	4	5	6
Some elements of core skills drawn on and evidenced within task response - limited use of skills in relation to brief requirements. (AO2b) Response has limited logic and shows superficial coherence between different aspects of the brief. (AO2b)		A range of core skills applied and evident in task response in relation to different elements of project brief. (AO2b) Response is logical and shows some coherence between different aspects of the brief. (AO2b)		Core skills applied consistently throughout task completion - full range of core skills evidenced. (AO2b) Response is logical and demonstrates detailed coherence between different aspects of the brief. (AO2b)	

Grid 6: AO5a, AO5b Report (Realise outcome, review outcome)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Written report** - which includes the preventative maintenance schedule • **Annotated drawing(s)** – showing the chosen lift induction motor, location of parts and system layout.		
Indicative Content	**AO5a - realise a project outcome – was the right outcome achieved** The candidate's consideration of • the effectiveness of the solution in relation to the context given in the project brief • the extent to which the evidence addresses the key requirements of the task • how 'believable' the solution is to meet client requirements • the feasibility of the schedule presented, and the levels of amendments required. **AO5b – review how well the outcome meets the brief, how well the brief was met, the quality of the outcome in relation to the brief** The candidate's • justification on how task elements have been met in the written report • evaluation of how the preferred lift induction motor meets the brief requirements • evaluation of how the preferred installation of the lift induction motor enables preventative maintenance.	**AOs (marks)** **AO5a (3)** **AO5b (3)**	**Total marks available** **6**

Marking descriptors – All versions

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

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Response partially addresses some of the task requirements. (AO5a)		Response addresses most aspects of the task requirements. (AO5a)		Response fully addresses all aspects of all elements of the task requirements. (AO5a)	

Justification and review do not clearly address how well the task outcome met the brief and lacks clarity and reasoning in places. (AO5b)	Justification and review address how well the task outcome was achieved. (AO5b)	Justification and review are comprehensive and specifically addresses how well the task outcome was achieved. (AO5b)

3. Plan

<table>
<tr><th colspan="4">Grid 7: AO1, AO3 Plan (Planned approach, selecting techniques)</th></tr>
<tr><td>Guidance for markers</td><td colspan="3">Only the following evidence must be used to assess performance against this marking grid:
A planning chart
A supporting statement</td></tr>
<tr><td rowspan="2">Indicative Content</td><td>AO1 – Plan their approach to meeting the project brief.
The candidate’s
planning of activities, the duration given to each activity and the sequence presented
adherence to the constraints set within the brief
achievability and realism of their plan
inclusions of relevant information to facilitate delivery of the plan
consideration of dependences between the different activities, clarity and accuracy of connections, identification of critical path analysis.
AO3 – Select relevant techniques and resources to meet the brief.
The candidate’s
demonstration of judgements in the sequencing of the required servicing elements
choice of tools, equipment and resources
consideration of safe working practices within their plan.</td><td>AOs (marks)
AO1 (3)
AO3 (3)</td><td>Total marks available
6</td></tr>
<tr><td colspan="3">Marking descriptors – All versions
Note: where there is insufficient evidence to award a mark, a zero mark may be given</td></tr>
<tr><td>Band 1 descriptor</td><td>Band 2 descriptor</td><td colspan="2">Band 3 descriptor</td></tr>
</table>

1	2	3	4	5	6
Limited approach to planning, response contains evidence of some of the required elements. (AO1) There is limited justification for the selection of resources (e.g., equipment, tools), safety considerations etc. The choices made are not always the most effective or appropriate for the project brief. (AO3)		Response contains required elements in logical order with consideration of those involved and layout. (AO1) Sequencing of activity and/or resources (e.g. equipment, tools), methods, and materials selected from those available to respond to the brief requirements with justification. The choices made are mostly accurate and appropriate for the project brief. (AO3)		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) There is a detailed and justified approach to the proposed resources (e.g. equipment, tools), sequence of activities, safety considerations etc. The choices made are accurate and appropriate for the project brief. (AO3)	

Grid 8: AO2a Plan (Core Knowledge)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **A planning chart** • **A supporting statement**		
Indicative Content	**AO2a – Apply core knowledge** The candidate's • use of technical terminology with the supporting statement, its consistency and appropriateness for the intended audience • knowledge of costs and purchasing considerations, potential sources and supply chain considerations • knowledge of different type formats for planning charts to display the plan ie use of a Gantt chart. • consideration of health and safety and environmental considerations linked to the use of tools, live systems etc. • inclusion of detailed required elements testing/commissioning, and calibration time and sequence linked or allocated to job role • consideration and selection of equipment • calculations of cost in relation to the budget and timescale • consideration of tolerances and specifications • collation of appropriate activities and the logic in the sequence in which they are presented.	**AOs (marks)** **AO2a (6)**	**Total marks available** **6**

Marking descriptors – All versions Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		**Band 2 descriptor**		**Band 3 descriptor**	
1	**2**	**3**	**4**	**5**	**6**
Some elements of core knowledge referenced within plan - limited		Elements of core knowledge directly highlighted in brief referenced within plan –		Knowledge from across the core applied and evident in plan in relation to different elements of project brief. (AO2a)	

comprehension of knowledge in relation to brief requirements. (AO2a) Supporting information details some links to the application of core knowledge to support judgements, but connections are not always clear and accurate. (AO2a)	knowledge evidenced may have gaps or show some misunderstanding. (AO2a) Supporting information details links to the application of core knowledge to justify and support judgements, but with some gaps or inaccuracies. (AO2a)	 Connections between elements of core knowledge fully explained within the supporting information to strengthen arguments and demonstrate understanding. (AO2a)

<table>
<tr><th colspan="4">Grid 9: AO2b Plan (Core skills)</th></tr>
<tr><td>Guidance for markers</td><td colspan="3">Only the following evidence must be used to assess performance against this marking grid:
A planning chart
A supporting statement</td></tr>
<tr><td rowspan="2">Indicative Content</td><td>AO2b – Application of core skills
Core skills being assessed:
Planning and preparation
professionalism of the presentation of the planning chart and to what extent it is conveyed using industry standard notation and features.
use of recognised methods of presentation for the programme (eg Gantt Chart) and comprehensiveness of completion (eg tasks, milestones, resources, and identification of critical path).
Developing responses
proposal of lift induction motor removal and installation process
incorporation of the required aspects in the response – use of logical and synergised approach to requirements.
coverage of the required considerations.
Communication and presentation.
structure, logic and coherence of the supporting statement.
clarity of plan.
Evaluation and quality assurance
justification of the plan, to include:
health and safety considerations
tools, equipment and resources
access requirements
cost, timescale considerations and implications.</td><td>AOs (marks)
AO2b (6)</td><td>Total marks available
6</td></tr>
<tr><td colspan="3">Marking descriptors – All versions
Note: where there is insufficient evidence to award a mark, a zero mark may be given</td></tr>
</table>

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Some elements of each core skill applied - limited application of skills in practice in relation to brief requirements. (AO2b)		Elements of most core skills directly highlighted in brief used efficiently and consistency throughout. (AO2b)		All aspects of all core skills applied effectively throughout plan creation with clear focus on required outcomes and linking of skills to task elements is fully considered. (AO2b)	

4. Present

<table>
<tr><th colspan="4">Grid 10: AO1, AO3 Present (Planned approach, selecting techniques)</th></tr>
<tr><td>Guidance for markers</td><td colspan="3">Only the following evidence must be used to assess performance against this marking grid:
Video recording of presentation
Presentation materials (slides, handouts, notes etc)
Presentation Q&A Record (if this cannot be heard on the video)
Audience: manager from the hotel with a non-technical engineering background.</td></tr>
<tr><td rowspan="2">Indicative Content</td><td>AO1 – Plan their approach to meeting the project brief
The candidate’s
logic and order of the presentation.
completeness in the coverage of points stated within the task.
justification for your chosen lift induction motor
health and safety considerations for testing and calibration considerations during and after installation
an outline of the preventative maintenance schedule
estimated costs for all services
how well your proposal addresses the requirements of the brief
challenges presented by the brief and how these have been overcome including future improvements
consideration of the presentation content in terms of its audience.
AO3 – Select relevant techniques and resources to meet the brief
The candidate’s
selection and application of techniques for delivering the presentation, how appropriate and effective they are (eg use of slide deck, reference to notes, provision of handouts, use of other reference material).
use of positive non-verbal communication during delivery (eg maintaining eye contact with the audience) and the clarity of speaking/delivery, and the level of which distraction behaviour is displayed (eg rocking, tapping, pausing).</td><td>AOs
(marks)</td><td>Total marks available</td></tr>
<tr><td>AO1 (3)

AO3 (3)</td><td>6</td></tr>
</table>

Marking descriptors – All versions Note: where there is insufficient evidence to award a mark, a zero mark may be given					
Band 1 descriptor		**Band 2 descriptor**		**Band 3 descriptor**	
1	**2**	**3**	**4**	**5**	**6**
The presentation lacks structure and does not always follow a logical approach due to ineffective planning. (AO1) Technique used to deliver the presentation is sometimes effective. However technical information is not always complete and accurate. (AO3)		The presentation is structured and follows a logical approach in response to the task with evidence of planning. (AO1) Techniques used to deliver the presentation are mostly effective. The technical information provided is accurate most of the time with valid reasoning. (AO3)		The presentation is organised, structured and logical in its approach. It is clear that the presentation content has been considered in terms of its audience. (AO1) Techniques used to deliver the presentation are effective with well justified reasoning behind the information provided. Technical information is fully accurate and reasoned. (AO3)	

Grid 11: AO2a Present (Core Knowledge)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Video recording** of presentation • **Presentation materials** (slides, handouts, notes etc) • **Presentation Q&A Record** (if this cannot be heard on the video) Audience: manager from the hotel with a **non-technical** engineering background.		
Indicative Content	**AO2a – Apply core knowledge** The candidate's • judgements in the preparation of the presentation, how well they are reasoned and cover the key features of the task requirements. • interpretation and definition of the challenges posed within the brief and explanation of how these have been overcome by the proposed modifications presented. • coverage of technology, components selected with relevant and considered justifications. • application of core knowledge when responding to the requirements of the task. • confidence and accuracy when responding to question from the client (tutor/assessor) • use of technical language (with consideration of a technical audience)	**AOs (marks)** **AO2a (6)**	**Total marks available** **6**

Marking descriptors – All versions

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

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Engineering concepts relating to the core knowledge conveyed through the presentation - these may not always be		Engineering concepts relating to the core knowledge are coherent throughout the presentation to meet the requirements of the brief set. (AO2a)		Engineering concepts relating to the core knowledge are coherent with clear justifications on how these are applied in response to the brief requirements. (AO2a)	

accurate or be directly linked to the brief requirements. (AO2a) Terminology used may have inaccuracies and content provided may include inconsistencies and not clear to the target audience. (AO2a)	Terminology used is mostly accurate with minor errors. The content provided is mostly correct but does not always consider the target audience / may be imbalanced or biased (e.g., to either technical or non-technical 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 / imbalance across audience type (where appropriate). (AO2a)

Grid 12: AO2b Present (Core skills)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Video recording** of presentation • **Presentation materials** (slides, handouts, notes etc) • **Presentation Q&A Record** (if this cannot be heard on the video) Audience: manager from the hotel with a **non-technical** engineering background.		

Indicative Content	**AO2b – Application of core skills**
	Core skills being assessed:
	• Communication and presentation.
	  ○ professionalism of presentation resources (slides/presentation methods).
	  ○ effectiveness in communicating the lift induction motor choice and its considerations – including fluency, accuracy, clarity and conciseness.
	  ○ clarity and size of images and figures, inclusion of labels, font size.
	• Evaluation and quality assurance
	  ○ how the lift induction motor removal and installation meet the client's requirements outlined in the brief.
	  ○ challenges presented by the brief and how these have been overcome including future improvements.
		AOs (marks)
		AO2b (6)
			Total marks available
			6

Marking descriptors – All versions

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

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Communication of engineering concepts is sometimes effective. The delivery of technical information may lack accuracy and clarity for the audience. (AO2b)		Engineering concepts are communicated effectively most of the time in an appropriate manner for the target audience. There are minor inaccuracies in the delivery of information which causes a lack of clarity in some instances. (AO2b)		Highly effective communication of engineering concepts is appropriate for the target audience. Technical information is presented accurately and delivered with clarity. (AO2b)	

Grid 13: AO5a, AO5b Present (Realise outcome, review outcome)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • **Video recording** of presentation • **Presentation materials** (slides, handouts, notes etc) • **Presentation Q&A Record** (if this cannot be heard on the video) Audience: manager from the hotel with a **non-technical** engineering background.		
Indicative Content	**AO5a** – **realise a project outcome – was the right outcome achieved** The candidate's • effectiveness in evaluating the challenges presented by the brief and how these have been overcome. • identification of which areas of the brief were/were not satisfied. • reflections on additional aspects of research they could have done, any rework that would improve / enhance a future project outcome. **AO5b** – **review how well the outcome meets the brief, how well the brief was met, the quality of the outcome in relation to the brief** The candidate's • clarity within their evaluation and review of the challenges presented in the brief, and indications within the presentation on how these have been overcome. • clarity of explanation of how the proposed modifications address the requirements of the brief, including any featured considered by the candidate to be improved. • evaluation on ideas relating to how earlier tasks could be built on and indications of reasons why this has happened.	**AOs (marks)** **AO5a (3)** **AO5b (3)**	**Total marks available** **6**

Marking descriptors – All versions

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

Band 1 descriptor		Band 2 descriptor		Band 3 descriptor	
1	**2**	**3**	**4**	**5**	**6**
Project outcome as a whole partially addresses some of the brief requirements.		Project outcome as a whole address all aspects of the brief requirements. Articulates		Project outcome as a whole fully addresses all aspects of the brief requirements and considers	

Articulates some challenges encountered. (AO5a)	all challenges encountered and attempts to overcome them. (AO5a)	alternative options where appropriate. Articulates fully all 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 are 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)

<table>
<tr><th colspan="4">Grid 14: AO4a (Maths)</th></tr>
<tr><td>Guidance for markers</td><td colspan="3">Only the following evidence must be used to assess performance against this marking grid:
Research notes – approximated calculations relating to costings (and consideration of estimations) (Task 1)
Report – safety factor including the cross-sectional area (Task 2)
Report – Hooke’s law including the cross-sectional area (Task 2)
Report - calculations of estimated cost of replacement and installation (Task 2)
Plan - calculation of cost, timescales and critical path analysis within the planning chart (Task 3)
Plan - Any calculations within the supporting statement (Task 3)</td></tr>
<tr><td rowspan="2">Indicative Content</td><td rowspan="2">The candidate’s:
accuracy in calculation of budgets, timings and critical path analysis as part of completion of planning.
calculation of the safety factor of the cables used in the lift system
calculation of the deformation of the cables under the maximum load using Hooke's Law.</td><td>AOs
(marks)</td><td>Total marks available</td></tr>
<tr><td>AO4a
(3)</td><td>3</td></tr>
<tr><td colspan="4">Marking descriptors – All versions
Note: where there is insufficient evidence to award a mark, a zero mark may be given</td></tr>
<tr><th>Band 1 descriptor</th><th>Band 2 descriptor</th><th colspan="2">Band 3 descriptor</th></tr>
<tr><td>1</td><td>2</td><td colspan="2">3</td></tr>
<tr><td>Limited mathematical concepts and calculations applied. (AO4a)

Workings or techniques omitted as part of calculations, assumptions lack detail and full definition. Workings shown but calculation errors made / inaccurate execution. (AO4a)</td><td>A range of mathematical concepts and calculations shown and applied appropriately. (AO4a)

Working contains inaccuracies or could be more efficient (ie expressed in shorthand). Workings inconsistently shown. (AO4a)</td><td colspan="2">Mathematical approaches and concepts applied fully and consistently. (AO4a)

Calculations presented accurately and in correct format, workings shown and evidence of checking to ensure correct results (eg estimation workings, reverse calculation checks). (AO4a)</td></tr>
</table>

Grid 15: AO4b (English)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • Research notes (Task 1) • Report (Task 2) • Supporting statement for the plan of work (Task 3) • Presentation delivery (orally) and materials to support presentation (eg slides etc) (Task 4)		
Indicative Content	The candidate's: • use of appropriate and accurate English • clarity and articulateness of use of English to present information and ideas • accuracy of grammar, spelling and punctuation • use of terminology, which is technical and consistent with the intended audience (people from technical background) • confidence in the use of language during verbal presentations, level of articulation and clarity in the delivery of information to summarise information/ideas.	**AOs (marks)** **AO4b (3)**	**Total marks available** **3**

Marking descriptors – All versions

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

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor
1	**2**	**3**
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) Meaning is clear, but the language is not always fluent. Grammar and/or spelling contain errors or inconsistencies.	Evidence within task responses uses conventional structure which is understandable. Communication style is appropriate to the outcome across most tasks. (AO4b) Meaning is clear, language is fluent, although the response may contain colloquialisms or	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, language is fluent and consistent across tasks. Grammar and spelling are consistently accurate across tasks. Deploys a

Audibility of oral presentation is inconsistent. (AO4b)	jargon etc. Grammar and spelling are mainly accurate. Audibility of oral presentation is good. (AO4b)	range of grammatical constructions. Audibility of oral presentation is excellent. (AO4b)

Grid 16: AO4c (Digital)			
Guidance for markers	**Only** the following evidence must be used to assess performance against this marking grid: • Types of sources used for Research (Task 1) • Writing of Report, drawings from Task 2 location for the main parts and system layout (Task 2) • Presentation of the planning chart (Task 3) • Presentation materials (slides, handouts, notes etc) (Task 4).		
Indicative Content	The candidate's: • selection of digital resources and the effective of the resource in meeting task requirements • application of features available within digital resources (e.g. formatting, layout, presentation modes, animations / transitions in presentation, application of software package features). • selection and use of software to support delivery of the presentation. • use of a range of digital options used across tasks, the extent to which they have been used to add value and their effectiveness of use. • use of current digital techniques, resources, and sources in adherence with industry practice, convention, and trends.	**AOs (marks)** **AO4c (3)**	**Total marks available** **3**

Marking descriptors – All versions

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

Band 1 descriptor	Band 2 descriptor	Band 3 descriptor
1	**2**	**3**
Digital technology attempted as part of task responses. (AO4c)	Consideration and use of basic digital options/features to strengthen task responses throughout project across tasks. (AO4c)	Digital options applied effectively in line with industry practices/ best practice, demonstrating use of range of technology features. Digital techniques used effectively to add value to task responses. (AO4c)

Get in touch

City & Guilds Technicals Quality Team

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

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

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