

# Electrical Power Networks Engineer Practical Observation Guidance Design Engineer

#### **Practical Observation Assessment Requirements**

For the Practical Observation each apprentice will be observed completing a practical activity in a real working environment which is appropriate for their specific job role. In the role of a Design Engineer they may typically be observed undertaking a detailed electrical network design, demonstrating load calculations, production of network diagrams and the benefits of their proposed design.

### Roles and Responsibilities of Assessment Staff

Appropriately qualified and experienced staff will conduct practical observation assessments and make the final grade decision as defined in the Electrical Power Network Engineer Assessment Plan. Requirements and responsibilities of these roles are detailed below:

# **Employer Technical Expert Requirements**

Employer Technical Expert will have an electrical engineering qualification at a minimum of level 4 or equivalent and have a minimum of 5 years' experience as a practitioner in an appropriate work environment and hold or have previously held an appropriate level of industry Authorisation and will be from the apprentice's employer but will not have been involved in the direct training or line management of the apprentice

The Employer Technical Expert will accompany the Independent Technical Expert and can provide advice on relevant Company policies and procedures. Following the observation, the independent industry technical expert and the employer technical expert will assign a preliminary mark. In the case of a disagreement, the independent industry technical expert will have the casting vote.

#### Independent Industry Technical Expert Requirements

Independent Industry Technical Expert's will have an electrical engineering qualification at a minimum of level 4 or equivalent and have a minimum of 5 years' experience as a practitioner in an appropriate work environment and hold or have previously held an appropriate level of industry Authorisation and must be independent i.e. have no connection with the apprentice, their training provider or employer.

The Independent Industry Technical Expert will conduct the practical observation and provide their preliminary mark to the Independent Examiner.



# Independent Examiner Requirements

Independent Examiner's must have an electrical engineering qualification at a minimum of level 4 or equivalent and have a minimum of 5 years' experience as a practitioner in an appropriate work environment and be independent i.e. have no connection with the apprentice, their training provider or employer. In addition, they must use the evidence provided by the technical experts to make the final grading decision.

The independent examiner will combine the moderated grades from the knowledge test, practical observation and technical interview to determine the overall apprenticeship grade in line with the grading criteria.

#### Assessment Requirements

The practical observation must in all cases assess each apprentice synoptically against the core knowledge, skills and behaviours shown below, as detailed in Annex A of the Assessment Plan.

- 1. Interpret the Company requirements with regard to project management tools, techniques and processes.
- 2. Interpret the Company business planning and resource control measures.
- 3. Comply with company and Industry health, safety and environmental standards, regulations, company operating procedures and working practices.
- 4. Ensure that all safety considerations are incorporated and evident in all working practices.
- 5. Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities.
- 6. Use company IT systems to provide accurate and reliable data to support business decisions.
- 7. Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment.

In addition, for the role of a Design Engineer, each apprentice must also be assessed on **EACH** of the specific skill requirements shown below, as detailed in Annex A of the Assessment Plan.

- 1. Taking the long-term network plan into consideration, translate company strategies into specific electrical designs.
- 2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals.
- 3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams.



# Assessment Guidance

- 1. The assessment must be conducted in a realistic work situation that reflects the typical hazards and risks of the work environment following the protocol issued by the EUIAS
- 2. The assessment must be designed to meet the requirements of the Electrical Power Networks Engineer (EPNE) standard.
- 3. Technical experts must be independent i.e. have no connection with the apprentice, their training provider or employer.
- 4. The assessment should be designed to incorporate the use of tools and techniques that allow the apprentice to demonstrate the more complex higher order level of skills required by their role.
- 5. The technical expert conducting the assessment must remain in visual contact with the apprentice throughout the practical observation assessment.
- 6. The apprentice will be asked standardised questions from a set developed by the EUIAS with opportunity for follow up questions as appropriate to confirm their understanding of the actions taken and the choices made to complete the tasks. EUIAS will provide a template containing sets of standardised questions where the apprentice's responses can be recorded.
- 7. The practical observation should be designed by the apprentice's employer to assess a broad range of the higher order skills, knowledge and behaviours developed over the period of the apprenticeship. The technical expert will need to assess and record how the apprentice achieved the practical observation criteria for their role as a Design Engineer.
- 8. During the practical observation the Independent Industry Technical Expert will take into consideration core behaviours demonstrated by the apprentice. These core behaviours should underpin the skills and knowledge demonstrated by the apprentice during the practical observation of their core and role specific skills and have been built into the relevant element criteria.



### Practical Observation Element Grading

**Element FAIL** – The recommendation of an element "FAIL" grade will be given in cases where the apprentice does not meet the minimum standards set for a safe and competent performance identified in the "PASS" criteria, which could be exhibited through a lack of knowledge, skill and / or suitable behaviour.

The decision to recommend an element "FAIL" will result where an apprentice fails to meet any one or more of the elements "PASS" criteria. This may occur for any element criteria where the apprentice demonstrates a series of minor poor performance issues or alternatively where the apprentice infringes any critical safety issues such as any deviation from the company safety rules or operational procedures. In cases where the apprentice makes an error that is likely to cause harm to themselves or others or where serious damage is likely to be caused the Employer Technical Expert must intervene immediately to stop the action and the assessment will be terminated.

1.0 (CS) Comply with Company and in operating procedures and working	dus	Core Skills try health, safety and environmental stand	ards	, regulations, company
To achieve a PASS the apprentice must achieve ALL of the following:		To achieve a DISTINCTION a minimum of 2 distinction criteria must be achieved:	D	Assessor comments / questioning providing justification for the grad awarded
Demonstrate a clear knowledge of the relevant health, safety and environmental legislation relevant to the work activity and their job role	J	Demonstrate an excellent knowledge and understanding of the relevant industry health, safety and environmental legislation and the requirements for complying with them.		Apprentice gave a good detailed description of the relevant H&S leaislation
Describe their role and responsibilities in relation to the work activity and the Company processes / procedures for achieving and maintaining safety	J	Takes a pro-active lead in accepting additional responsibility and autonomy to improve safety standards / culture		Listed Class included HASAWA COSHH and PUWER
Identifies relevant risks and chooses the appropriate course of action to control / manage them (AP)	J	Challenges unsafe behaviour / practices using appropriate techniques to effectively resolve safety issues		The apprentice conducted a thorough and detailed risk assessment and recorded the
Ensure that health, safety and environmental considerations take priority during the work activity and comply with Company standards, procedures and health & safety legislation. (AP)	J	Take a pro-active lead in dealing with problem situations, attempting to solve the root cause of the problem and making suggestions for future improvements (AP)		details The apprentice failed to inform to working party of the safety
Clearly and effectively inform others affected by the work activity of relevant safety matters which affect them	×			réquiréments and conduct à tool box talle
Follows Company and HS&E policies and procedures to ensure the protection of people and property and maintain a safe working environment throughout the work activity (B)	J			They closely monitored the work progress and stepped in to advise a contractor who entered the work area
Regularly monitors / checks the work activity / environment and takes action when necessary to maintain a safe working environment (B)	J			Question relating to emergency procedures answered but not
Describe the Company procedure/s for reporting safety related concerns and emergencies.	1			conducted when required



In the example provided (Fig 1) the Employer Technical Expert concluded that the apprentice did not provide sufficient evidence of a safe and competent performance against the "PASS" criteria of element five, and therefore a "FAIL" grading was awarded.

**Element PASS** - The recommendation of an element "PASS" grade will be given in cases where the apprentice meets the minimum standards set for a safe and competent performance in the element "PASS" column i.e. achieves all the pass criteria.

Practical Observation Checklist				ASSESSMENT SERVICE
1.0 (CS) Comply with Company and in operating procedures and working		try health, safety and environmental standa	ards	, regulations, company
To achieve a PASS the apprentice must achieve ALL of the following:		To achieve a DISTINCTION a minimum of 2 distinction criteria must be achieved:	D	Assessor comments / questioning providing justification for the grade awarded
Demonstrate a clear knowledge of the relevant health, safety and environmental legislation relevant to the work activity and their job role	J	Demonstrate an excellent knowledge and understanding of the relevant industry health, safety and environmental legislation and the requirements for complying with them.		Apprentics gave a good detailed description of the relevant H&S leaislation
Describe their role and responsibilities in relation to the work activity and the Company processes / procedures for achieving and maintaining safety	J	Takes a pro-active lead in accepting additional responsibility and autonomy to improve safety standards / culture		Listsd <u>1925</u> included HASAWA COSHH and PUWER
Identifies relevant risks and chooses the appropriate course of action to control / manage them (AP)	J	Challenges unsafe behaviour / practices using appropriate techniques to effectively resolve safety issues		The apprentice conducted a thorough and detailed risk assessment and recorded the
Ensure that health, safety and environmental considerations take priority during the work activity and comply with Company standards, procedures and health & safety legislation. (AP)	J	Take a pro-active lead in dealing with problem situations, attempting to solve the root cause of the problem and making suggestions for future improvements (AP)		details The apprentice informed the working party of the safety
Clearly and effectively inform others affected by the work activity of relevant safety matters which affect them	J			requirements and conduct a tool box talk
Follows Company and HS&E policies and procedures to ensure the protection of people and property and maintain a safe working environment throughout the work activity (B)	J			They closely monitored the work progress and stepped in to advise a contractor who entered the work area
Regularly monitors / checks the work activity / environment and takes action when necessary to maintain a safe working environment (B)	J			Question relating to emergency procedures answered without hesitation or prompting
Describe the Company procedure/s for reporting safety related concerns and emergencies.	1			ngasen ders er prerikpesnig

Fig 2

In the example provided (Fig 2) the apprentice provided evidence of a safe and competent performance against ALL the criteria in the "PASS" column and therefore an element "PASS" grading was recommended.



**Element DISTINCTION** –In addition to achieving the required element "PASS" criteria the apprentice may achieve a distinction grade for an element where he / she demonstrates exceptional performance during the observation of their work activity. This will typically be through demonstrating their higher levels of knowledge, skills and / or behaviours for the activity being observed. To achieve an element "DISTINCTION" the apprentice must achieve a minimum of 2 criteria in the "DISTINCTION" column.

Practical Observation Checklist 1.0 (CS) Comply with Company and in operating procedures and working	dus	try health, safety and environmental standa	ards	ASSESSMENT SERVICE
To achieve a PASS the apprentice must achieve ALL of the following:	P	To achieve a DISTINCTION a minimum of 2 distinction criteria must be achieved:	D	Assessor comments / questioning providing justification for the grade awarded
Demonstrate a clear knowledge of the relevant health, safety and environmental legislation relevant to the work activity and their job role Describe their role and responsibilities in relation to the work activity and their company processes / procedures for achieving and maintaining safety Identifies relevant risks and chooses the appropriate course of action to control / manage them (AP) Ensure that health, safety and environmental considerations take priority during the work activity and comply with Company standards, procedures and health & safety legislation. (AP) Clearly and effectively inform others affected by the work activity of relevant safety matters which affect them Follows Company and HS&E policies and procedures to ensure the protection of people and property and maintain a safe working environment throughout the work activity (B) Regularly monitors / checks the work activity / environment and takes action when necessary to maintain a safe working environment (B)		Demonstrate an excellent knowledge and understanding of the relevant industry health, safety and environmental legislation and the requirements for complying with them. Takes a pro-active lead in accepting additional responsibility and autonomy to improve safety standards / culture Challenges unsafe behaviour / practices using appropriate techniques to effectively resolve safety issues Take a pro-active lead in dealing with problem situations, attempting to solve the root cause of the problem and making suggestions for future improvements (AP)	J	Apprentics gave a therough dealist explanation of the relevant HSS logistation and their effect on the work included HASAWA, COSH and PULVER. The apprentice conducted a therough and detailed risk assessment and recorded the dealis The apprentice informed the working party of the shifty requirements and conduct a tool bot talk They closely menitored the work progress and effectively dealt with a member of the public who entered the work area Question relating to emergency proceedings and effectively with entered the work area

#### Fig 3

In the example provided (Fig 3) the apprentice provided evidence of a safe and competent performance against ALL the criteria in the "PASS" column and 2 of the criteria in the "DISTINCTION" column and therefore an element "DISTINCTION" grading was recommended.



# Practical Observation Overall Grading

Once all elements have been observed and the marks awarded the Employer Technical Expert will calculate the overall recommended grading by totalling the marks awarded on the EUIAS Grading Document.

**Overall FAIL** - Should the apprentice fail to provide evidence for any of the criteria identified in the "PASS" column then the minimum "PASS" mark of 60% will not have been achieved. In the example provided (Fig 4) the Employer Technical Expert will be required to recommend the award of FAIL.

Design Engineer Core and Specific Skill Elements	Pass	Distinction
1.0 (CTK) Interpret the Company requirements with_regard_to project management tools, techniques and processes		1
2.0 (CTK) Interpret the Company business planning and resource control measures	4	1
1.0 (CS) Comply with company and Industry health, safety and environmental standards, regulations, company operating procedures and working practices including Health, Safety & Environment core behaviour	8	4
2.0 (CS) Ensure that all safety considerations are incorporated and evident in all working practices including risk awareness core behaviour	8	4
3.0 (CS) Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour	6	3
4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions	4	N/A
<ul> <li>5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment</li> <li>1 to 3 (SS) Skill-specific activities will include:</li> </ul>	×	3
To 5 (35) Skill-specific activities will include.     Taking the long term network plan into consideration, translate company strategies into specific electrical designs	$\bigcirc$	9
2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals	$\bigcirc$	9
3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams	6	6
Total Marks	54	
ote: Pass marks <u>must be a minimum of 60</u> before any distinction marks can	be awa	rded
Dbservation Outcome     Fail = 0 - 59     Pass = 60 - 84     Distinction       54 points      points	n = 85 points	
y signing below I confirm that the information provided is correct and the prel warded is a true reflection of the performance by the apprentice	iminary	/ grad
Technical Expert name / signature Date		



**Overall PASS** - A "PASS" grading will be recommended in cases where the apprentice meets the minimum standards set for a safe and competent performance in the element "PASS" column. In the example provided (Fig 5) the Employer Technical Expert calculated that the total marks recommended met the minimum "PASS" mark of 60% and therefore a "PASS" grading was recommended.

measures         1.0 (CS) Comply with company and Industry health, safety and environmental standards, regulations, company operating procedures and working practices including Health, Safety & Environment core behaviour         2.0 (CS) Ensure that all safety considerations are incorporated and evident in all working practices including risk awareness core behaviour       8         3.0 (CS) Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour       6         4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       4         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         1. Taking the long term network plan into consideration, translate company strategies into specific electrical designs       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks         Gover states marks must be a minimum of 60 before any distinction marks can be at minimum of 60 before any distinction marks can be at Distinction = 4	esign Engineer ore and Specific Skill	l Elements			Pass	Distinction
measures       4         1.0 (CS) Comply with company and Industry health, safety and environmental standards, regulations, company operating procedures and working practices including Health, Safety & Environment core behaviour       8         2.0 (CS) Ensure that all safety considerations are incorporated and evident in all working practices including risk awareness core behaviour       8         3.0 (CS) Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour       6         4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       4         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any distinction marks can be an implication of 40 before any disti				a project		1
environmental standards, regulations, company operating procedures and working practices including Health, Safety & Environment core behaviour       8         2.0 (CS) Ensure that all safety considerations are incorporated and evident in all working practices including risk awareness core behaviour       8         3.0 (CS) Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour       6         4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       6         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks 60         Pass = 60 - 84         Distinction marks can be a minimum of 60 before any distinction marks can be and observation Quitcome		company business p	planning and reso	ource control	4	1
in all working practices including risk awareness core behaviour       8         3.0 (CS) Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour       6         4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       4         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks 60         Deservation Outcome         Fail = 0 - 59         Pass = 60 - 84         Distinction = 60	nvironmental standards	, regulations, comp	any operating pr	ocedures and	3	4
stakeholders both in writing and verbally in relation to their role activities including interpersonal skills core behaviour       6         4.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       4         5.0 (CS) Use company IT systems to provide accurate and reliable data to support business decisions       6         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         1. Taking the long term network plan into consideration, translate company strategies into specific electrical designs       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks         ote: Pass marks must be a minimum of 60 before any distinction marks can be an engineering optic plant and plant	all working practices in	ncluding risk aware	ness core behavi	our	6	4
support business decisions       4         5.0 (CS) Use company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment       6         1 to 3 (SS) Skill-specific activities will include:       7         1. Taking the long term network plan into consideration, translate company strategies into specific electrical designs       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks         ote: Pass marks must be a minimum of 60 before any distinction marks can be an Observation Outcome	akeholders both in writ	ing and verbally in i	relation to their ro		6	3
the reliability of engineering systems and equipment       0         1 to 3 (SS) Skill-specific activities will include:       7         1. Taking the long term network plan into consideration, translate company strategies into specific electrical designs       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks         ote: Pass marks must be a minimum of 60 before any distinction marks can be an other plant and plant a		<i>,</i> ,	e accurate and re	eliable data to	4	N/A
1. Taking the long term network plan into consideration, translate company strategies into specific electrical designs       7         2. Make proposals regarding appropriate plant & equipment to be used and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks         ote: Pass marks must be a minimum of 60 before any distinction marks can be an other plant.         Pass = 60 - 84         Distinction = 60	the reliability of engir	neering systems and	d equipment	and predict	6	3
and the benefits of the proposals       7         3. Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams       6         Total Marks       60         ote: Pass marks must be a minimum of 60 before any distinction marks can be among the servation Outcome       Fail = 0 - 59       Pass = 60 - 84       Distinction = 60	Taking the long term	network plan into c	onsideration, trai	nslate	$\bigcirc$	9
Ioad calculations and produce network diagrams     Total Marks       Total Marks     60       ote: Pass marks must be a minimum of 60 before any distinction marks can be an observation Outcome     Fail = 0 - 59		2	lant & equipment	t to be used	$\bigcirc$	9
ote: Pass marks <u>must be a minimum of 60</u> before any distinction marks can be an Observation Outcome Fail = 0 - 59 Pass = 60 - 84 Distinction = 60				lentify correct	6	6
Disservation Outcome Fail = 0 - 59 Pass = 60 - 84 Distinction = 6				Total Marks	60	
Observation Outcome	e: Pass marks <u>must be</u>					
	servation Outcome			Distinction	n = 85 points	
y signing below I confirm that the information provided is correct and the prelimin warded is a true reflection of the performance by the apprentice					iminary	/ grad
Technical Expert name / signature Date	chnical Expert name / s	ignature		Date		



In the example below (Fig 6) the apprentice provided evidence of a safe and competent performance against ALL the criteria in the "PASS" column but only one of the exceptional levels of knowledge, skills and behaviours criteria in the "DISTINCTION" column and as the points awarded was 69 this was still under the threshold of 85 for the "DISTINCTION" therefore a grading of "PASS" was recommended.

Design Engineer Core and Specific Ski	II Elements			Pass	Distinction
1.0 (CTK) Interpret the ( management tools, tech			project		1
2.0 (CTK) Interpret the			urce control		1
measures 1.0 (CS) Comply with co environmental standard working practices include	s, regulations, comp	oany operating pro	cedures and	3	4
2.0 (CS) Ensure that all in all working practices i	safety consideratio	ns are incorporate	d and evident	8	4
3.0 (CS) Produce timely stakeholders both in wri including interpersonal s	ing and verbally in	relation to their rol		6	3
4.0 (CS) Use company support business decision	, ,	le accurate and re	liable data to	4	N/A
5.0 (CS) Use company the reliability of engi 1 to 3 (SS) Skill-specific	neering systems an	d equipment	and predict	6	3
<ol> <li>Taking the long term company strategies</li> </ol>	network plan into a	consideration, tran	slate	$\bigcirc$	9
<ol><li>Make proposals reg and the benefits of t</li></ol>		plant & equipment	to be used	$\bigcirc$	9
<ol> <li>Demonstrate the ap load calculations and</li> </ol>			entify correct	6	6
		-	Total Marks	60	9
ote: Pass marks <u>must be</u>	a minimum of 60 b	efore any distincti	on marks can b	e awa	arded
Observation Outcome	Fail = 0 - 59 points	Pass = 60 - 84 69_ points	Distinction	n = 85 points	
y signing below I confirm warded is a true reflection				minar	y grade
Fechnical Expert name /	signature		Date		



**Overall DISTINCTION** – The addition of "DISTINCTION" points can only be recommended against elements where a "PASS" has already been achieved. A "DISTINCTION" grading will be recommended in cases where the minimum "DISTINCTION" mark of 85% is reached (see Fig 7). In the example provided the total points awarded was 86%.

Design Engineer Core and Specific Sk	ill Elements			Pass	Distinction
1.0 (CTK) Interpret the management tools, tech			project	4	Ċ
2.0 (CTK) Interpret the measures	Company business p	planning and resou	irce control	4	1
1.0 (CS) Comply with c environmental standard working practices include	ls, regulations, comp	any operating pro	cedures and	(3)	4
2.0 (CS) Ensure that all in all working practices	including risk aware	ness core behavio	ur	8	4
3.0 (CS) Produce timely stakeholders both in wr including interpersonal	iting and verbally in	relation to their role		6	3
4.0 (CS) Use company support business decisi	ions			4	N//
	ineering systems and	d equipment	nd predict	6	3
1 to 3 (SS) Skill-specific 1. Taking the long terr company strategies		onsideration, trans	slate	0	9
<ol><li>Make proposals reg and the benefits of the second second</li></ol>	the proposals				9
<ol> <li>Demonstrate the ap load calculations an</li> </ol>	plication of appropri d produce network o			6	6
lote: Pass marks must be	a minimum of 60 be	efore any distinctio	Total Marks	60 e awa	26 arded
Observation Outcome	Fail = 0 - 59 points	Pass = 60 - 84	Distinction 86	= 85	
y signing below I confirm warded is a true reflectio				minar	y gra
Technical Expert name /	signature		Date		



#### Practical Observation Grade Decision

Following the assessment the Independent Technical Expert following discussion with the Employer Technical Expert, will present the observation outcomes and their preliminary grade decision of a PASS, DISTINCTION or FAIL to the assessment organisation in readiness for the Final Grade Decision.

In the case of a disagreement, the Independent Industry Technical Expert will have the casting vote

### Overall Grade Decision

An independent examiner will combine the recommended moderated grades from the knowledge test, practical observation and technical interview to determine the overall apprenticeship grade in line with the grading criteria below.

### Grading Criteria

The apprenticeship will be graded distinction, pass or fail. The final grade will be determined by collective performance in the three assessment tools in the end-point assessment.

Each assessment method will be graded pass, distinction or fail. In order to gain an apprenticeship pass, an apprentice must achieve a minimum of a pass in each assessment method. An apprenticeship pass represents full competence against the standard. To achieve a distinction grade, an apprentice must achieve distinction in each assessment method.

The following table shows the grading boundaries for each end-point assessment method:

Award	Knowledge Test	Practical Observation	Technical Interview
Distinction	90% or greater	85% or greater	85% or greater
Pass	80% - 89%	60% to 84%	60% to 84%
Fail	79% or less	59% or less	59% or less

# Notification of Grading

All apprentices will be notified of their moderated final grade within 3 weeks of completing all assessment methods and will have the right to appeal the decision through the EUIAS appeals procedure.

# **Evidence Requirements**

The assessment evidence must be retained by the EUIAS for a minimum period of three years after the completion of the apprenticeship.

Relevant evidence and document of the apprentice's work must be retained by the employer for a minimum period of six years after the completion of the apprenticeship.