

## Workplace Assessment Install & Maintain HV Paper Insulated Cables

Candidate:	
Employer:	
Date:	



### Workplace Assessment Details

Candidate Name:	Employer:	
Assessor Name:	Date:	Time:
Work Location:		

#### Methods of assessment key:

WO = Workplace Observation P = Portfolio

Q = Questioning TPF = Third Party Feedback

SA = Structured Activities RP = Review of Products

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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#### **Performance Elements**

Prep	Preparing to undertake work					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
1	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed		□ Yes □ No			
2	Candidate receives and confirms OHS procedures, and participates in Job Safety Analysis (JSA)		□ Yes □ No			
3	Candidate identifies and obtains required work permits		□ Yes □ No			

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Preparing to undertake work				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
4	Candidate identifies risks to the environment related to the work to be performed		□ Yes □ No	
5	Candidate identifies and confirms arrangements for traffic management		□ Yes □ No	
Carr	ying out work tasks			
6	Candidate verifies / confirms that systems and circuits to be worked on are isolated and proved safe		□ Yes □ No	

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Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
7	Candidate joints HV paper insulated cable using one or more of the following joints: (indicate) ( ) Straight through joints ( ) Parallel branch joints		□ Yes □ No		
8	Candidate successfully uses one or more of the following accessories to joint LV paper insulated cable: (indicate) ( ) Resin filled boxes ( ) Polymeric tape ( ) Heat shrink ( ) Slip-on' moulds ( ) Pre-stretched polymeric ( ) Compound filled boxes		□ Yes □ No		

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Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
9	Candidate successfully uses one or more of the following joints/connectors to joint HV paper insulated cable: (indicate) ( ) Compression joints ( ) Mechanical connectors ( ) Soldered joints ( ) Ferrules ( ) Lugs		□ Yes □ No		
10	Candidate terminates HV paper insulated cable to one or more of the following equipment: (indicate) ( ) Busbar/termination box ( ) Links/Fuses ( ) Termination boxes ( ) Control gear		□ Yes □ No		

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Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
11	Candidate terminates HV paper insulated cable in one or more of the following enclosures: (indicate) ( ) Transformer ( ) Ring main units ( ) Chamber substations		□ Yes □ No	
12	Candidate performs insulation resistance tests on HV paper insulated cable joints to verify compliance		□ Yes □ No	
13	Candidate uses moisture testing equipment safely and correctly		□ Yes □ No	

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Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
14	Candidate uses one or more of the following test equipment to test HV paper insulated cables: (indicate) ( ) Cable spiking devices ( ) Cable identification devices		□ Yes □ No		
15	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No		
16	Candidate follows instructions and safe work methods/procedures at all times		□ Yes □ No		

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Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
17	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel		□ Yes □ No		
18	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No		
Com	pleting work tasks				
19	Candidate returns work permit(s) and/or access authorisation(s)		□ Yes □ No		

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Com	Completing work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
20	Work area is cleaned and tools, equipment and materials are cleaned and stored		□ Yes □ No		
21	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No		
22	Candidate completes works completion records, report forms/data sheets accurately		□ Yes □ No		

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Emp	Employability Skills				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
23	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No		
24	Candidate communicates clearly and works effectively as an individual and as part of a team		□ Yes □ No		

#### END OF ASSESSMENT

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Assessor Comments		
Assessment Outcome		
The evidence gathered demonstrates that the candidate can prepare for, carry out and complete work tasks autonomously, to requirements and time-frames typically expected in the industry, and at a level of competency that reflects his/her current stage through their training program:	□ Yes	□ No
I have made the determination above, based on evidence collected by using a variety of assessment meandidate's workplace:	nethods, as detailed at	pove, utilised in the
Assessor:		

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Workplace Assessment – Install & Maintain HV Paper Insu Candidate:	ulated Cables	electro group industry training
Signature:	Date:	
Candidate Feedback (including gaps and improvement stra	tegies if required)	
Candidate Declaration I have been informed of the assessment result, the reasons beh	nind the determination and a strategy for improvement if necessary	<b>.</b>
Candidate:		

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Signature:	Date:	

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#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)
	1	UEENEEE101A UEENEEE102A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ23A		2	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ23A		3	UEENEEE101A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ23A
	4	UETTDREL11A		5	UETTDRCJ21A UETTDRCJ23A		6	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A UETTDRCJ21A UETTDRCJ23A
	7	UEENEEE101A UETTDRCJ23A		8	UEENEEE101A UETTDRCJ23A		9	UEENEEE101A UETTDRCJ23A

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	10	UEENEEE101A UETTDRCJ21A UETTDRCJ23A		11	UEENEEE101A UETTDRCJ23A		12	UEENEEE101A UETTDRCJ21A UETTDRCJ23A
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Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	13	UEENEEE101A UETTDRCJ23A		14	UEENEEE101A UETTDRCJ23A		15	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ23A
	16	UEENEEE101A UETTDRCJ21A UETTDRCJ23A		17	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ23A		18	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ23A
	19	UEENEEE101A UETTDRCJ21A UETTDRCJ23A		20	UEENEEE102A UETTDREL11A UETTDRCJ21A UETTDRCJ23A		21	UETTDRCJ21A UETTDRCJ23A
	22	UETTDRCJ21A UETTDRCJ23A		23	Employability Skills		24	Employability Skills



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Managing Director



# Workplace Assessment Install & Maintain Underground HV Polymeric Cables

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Q Jeremy

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Assessor Name:			Date:	Time:				
Work Loca	Work Location:							
Methods o	f ass	sessment key:						
WO	=	Workplace Observation	Р	=	Portfolio			
Q	=	Questioning	TPF	=	Third Party Feedback			
SA	=	Structured Activities	RP	=	Review of Products			

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

#### **Performance Elements**

#### **Preparing to undertake work**

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	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
1	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed		□ Yes □ No	
2	Candidate receives and confirms OHS procedures, and participates in Job Safety Analysis (JSA)		□ Yes □ No	
3	Candidate identifies and obtains required work permits		□ Yes □ No	

Pre	paring to undertake work			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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4	Candidate identifies risks to the environment related to the work to be performed	□ Yes □ No	
5	Candidate identifies and confirms arrangements for traffic management	□ Yes □ No	
Carı	ying out work tasks		
6	Candidate verifies / confirms that systems and circuits to be worked on are isolated and proved safe	□ Yes □ No	

Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	

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7	Candidate joints underground HV polymeric cable using one or more of the following joints: (indicate) ( ) Tee-off joints ( ) Straight through joints ( ) Parallel branch joints ( ) Parallel joints	□ Yes □ No	
8	Candidate successfully uses one or more of the following accessories to joint HV polymeric cable: (indicate) ( ) Resin filled boxes, ( ) Compound filled boxes ( ) Polymeric tape ( ) Heat shrink ( ) Slip-on' moulds ( ) Pre-stretched polymeric	□ Yes □ No	

Cai	ying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	

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9	Candidate successfully uses one or more of the following lugs/connectors to joint HV polymeric cable: (indicate) ( ) Compression connectors ( ) Mechanical connectors ( ) Lugs		□ Yes □ No	
10	Candidate terminates HV polymeric cable to one or more of the following pieces equipment: (indicate) ( ) Busbar/termination boxes ( ) Links/Fuses ( ) Disconnect boxes ( ) Termination boxes ( ) Control gear ( ) Circuit breakers		□ Yes □ No	
Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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11	Candidate terminates HV polymeric cable in one or more of the following enclosures: (indicate) ( ) Transformer ( ) Ring main units ( ) Chamber substations		□ Yes □ No	
12	Candidate correctly and safely uses one or more of the following devices: (indicate) ( ) Cable spiking device ( ) Cable identification device ( ) Voltage detector		□ Yes □ No	
13	Candidate performs insulation resistance tests on HV polymeric cable joints to verify compliance		□ Yes □ No	
Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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14	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment	□ Yes □ No	
15	Candidate follows instructions and safe work methods/procedures at all times	□ Yes □ No	
16	Candidate confirms procedures to deal with non-routine events, provides suitable solutions and/or refers events to authorised personnel	□ Yes □ No	

С	arrying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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17	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No	
Com	npleting work tasks			
18	Candidate returns work permit(s) and/or access authorisation(s)		□ Yes □ No	
19	Work area is cleaned and equipment and materials are cleaned and stored		□ Yes □ No	
Com	pleting work tasks			
	Performance Element	Methods of	Successfully	Assessor Comments

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Demonstrated

Assessment



20	Candidate notifies appropriate personnel of work completion according to established procedures	□ Yes □ No	
21	Candidate completes works completion records, report forms/data sheets accurately	□ Yes □ No	

#### END OF ASSESSMENT

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Assessor Comments							
Assessment Outcome							
The evidence gathered downk tasks autonomously a level of competency that	, to requirements ar	nd time-frames typically e	xpected in the	industry, and	at	□ Yes	□ No
I have made the determing candidate's workplace:	nation above, based	on evidence collected by	using a varie	ty of assessme	ent methods	s, as detailed	above, utilised in the
Assessor:							
Signature:		Dat	e:			_	
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Candidate Fe	edback (ii	ncluding gaps and	improvement strategies	if required)					
Candidate De	eclaration								
		the assessment resu	ult, the reasons behind the	e determinatio	on and a strate	gy for impro	ovement i	f necessary.	
Candidate:									
Signature:			Dat	e:					
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#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	ment	Competency Standard Unit (CSU)	Elen	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)
	1	UEENEEE101A UEENEEE102A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ27A	UEENEEE102A UEENEEE107A UETTDREL11A UETTDRCJ21A		UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ27A		3	UEENEEE101A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ27A
	4	UETTDREL11A		5	UETTDRCJ21A UETTDRCJ27A		6	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A UETTDRCJ21A UETTDRCJ27A
	7	UEENEEE101A UETTDRCJ27A		8	UEENEEE101A UETTDRCJ27A		9	UEENEEE101A UETTDRCJ27A
	10	UEENEEE101A UETTDRCJ21A UETTDRCJ27A		11	UEENEEE101A UETTDRCJ21A UETTDRCJ27A		12	UEENEEE101A UETTDRCJ27A

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Element Competency Standard Unit (CSU)				nent	Competency Standard Unit (CSU)	Eler	ment	Competency Standard Unit (CSU)
	13	UEENEEE101A UETTDRCJ21A UETTDRCJ27A		14	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ27A		15	UEENEEE101A UETTDRCJ21A UETTDRCJ27A
	16	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ27A		17	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ27A		18	UEENEEE101A UETTDRCJ21A UETTDRCJ27A
	19	UEENEEE102A UETTDREL11A UETTDRCJ21A UETTDRCJ27A		20	UETTDRCJ21A UETTDRCJ27A		21	UETTDRCJ21A UETTDRCJ27A



## **Workplace Assessment**

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## **Inspect & Treat Poles & Structures**

Candidate:	
Employer:	
Date:	

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#### Workplace Assessment Details

Candidate Name:	Employer:	
Assessor Name:	Date:	Time:
Work Location:		

#### Methods of assessment key:

WO	=	Workplace Observation	Р	=	Portfolio
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SA = Structured Activities RP = Review of Products

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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#### **Assessment Elements**

Emp	Employability skills							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
1	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No					
Prep	Preparing to undertake work							
2	Candidate receives and confirms instructions and procedures related to the work to be performed		□ Yes □ No					

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Prep	Preparing to undertake work							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
4	Candidate identifies and obtains required work permits		□ Yes □ No					
5	Candidate identifies risks to the environment related to the work to be performed		□ Yes □ No					

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	35
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6	Candidate identifies and confirms arrangements for rail/road traffic management	□ Yes □ No	
7	Candidate selects tools, PPE and equipment appropriate to carry out the task	□ Yes □ No	

Carrying out work tasks								
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
8	Candidate conducts visual checking and treatment of one or more of the following pole / structure types: (indicate) ( ) Wood ( ) Steel ( ) Concrete ( ) Composite		□ Yes □ No					

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	36
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Carı	Carrying out work tasks						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			
10	Candidate applies one or more of the following treatments to poles / structures: (indicate) ( ) Chemical treatment ( ) Re-butting ( ) Nailing ( ) Welding ( ) Stays/guys		□ Yes □ No				

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Managing Director					_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	37
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|--|

Carr	Carrying out work tasks						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			
12	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No				

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Managing Director					
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	38
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13	Candidate follows instructions and safe work methods/procedures at all times	□ Yes □ No	
14	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel	□ Yes □ No	

Carr	Carrying out work tasks						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			
15	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No				

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	39
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Com	Completing work tasks					
16	Candidate returns work permit(s) and/or access authorisation(s)	□ Yes □ No				
17	Work area is cleaned and tools, equipment and materials are cleaned and stored	□ Yes □ No				

Con	Completing work tasks							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
18	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No					

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Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	40
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19	Candidate records results of visual inspections conducted on poles / structures	□ Yes □ No	
20	Candidate reports results of visual inspections conducted on poles / structures	□ Yes □ No	

#### END OF ASSESSMENT

Assessor Comments						

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Managing Director							
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	41		
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Assessment Outcome							
The evidence gathered demonstrates that the candidate can prepare for, carry out and complete work tasks autonomously, to requirements and time-frames typically expected in the industry, and at a level of competency that reflects his/her current stage through their training program:							
I have made the determination above, based on evidence collected by using a variety of assessment methods, as detailed above, utilised in the candidate's workplace:							
Assessor:	-						
Signature:	Date:						
Candidate Feedback (including gaps and improvement s	trategies if required)						

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Managing Director							
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	42		
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Workplace Assessment – Install & Maintain HV Paper Insulated Cables Candidate:	electro group industry training
Candidate Declaration I have been informed of the assessment result, the reasons behind the determination and a strategy for improvement if necessary.	
Candidate:	
Signature:	

Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:		
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	43		
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#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	nent	Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	
	1	UEENEEE101A Employability Skills			3	UEENEEE101A UETTDRIS57A			
	4	UEENEEE101A UETTDRIS57A		5	UETTDREL11A UETTDRIS57A		6	UEENEEE101A UETTDRIS57A	
	7	UEENEEE101A UEENEEE102A UETTDRIS57A		8	UETTDRIS57A		9	UETTDRIS57A	
	10	UETTDRIS57A		11	UETTDRIS57A		12	UETTDREL11A UETTDRIS57A	
	13	UEENEEE101A UETTDRIS57A		14	UEENEEE101A UETTDRIS57A		15	UEENEEE101A UETTDRIS57A	

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Managing Director					_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	44
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Element		nent	Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	nit Element		Competency Standard Unit (CSU)
□ 16		16	UETTDREL11A UETTDRIS57A		17	UEENEEE101A UETTDRIS57A		18	UETTDRIS57A
		19	UETTDRIS57A		20	UETTDRIS57A			



# Workplace Assessment Install & Maintain LV Paper Insulated Cables

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	Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	45	
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Candidate: _										
Employer: _										
Date: _										
Vorkplace Assessment Details										
Candidate Name:			Employer:							
Assessor Name:			Date:	Time:						
Work Location:										
Methods of assessment key:										
WO = Workplace Observation P	=	Poi	rtfolio							
Q = Questioning TPF	=	Thi	rd Party Feedback							
SA = Structured Activities RP	=	Re	view of Products							

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The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

Performance Elements	

Preparing to undertake work						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
1	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed		□ Yes □ No			

Authorised by:	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:
Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	47
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2	Candidate receives and confirms OHS procedures, and participates in Job Safety Analysis (JSA)	□ Yes □ No	
3	Candidate identifies and obtains required work permits	□ Yes □ No	

Prep	Preparing to undertake work							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
4	Candidate identifies risks to the environment related to the work to be performed		□ Yes □ No					

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Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	48
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	Performance Element	Methods of	Successfully	Assessor Comments	
Carrying out work tasks					
6	Candidate verifies / confirms that systems and circuits to be worked on are isolated and proved safe		□ Yes □ No		
Carry	ying out work tasks				
5	Candidate identifies and confirms arrangements for traffic management		□ Yes □ No		

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	49
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Demonstrated

Assessment



7	Candidate joints LV paper insulated cable using one or more of the following joints: (indicate) ( ) Tee-off joints ( ) Straight through joints ( ) Parallel branch joints ( ) Parallel joints	□ Yes □ No	
8	Candidate successfully uses one or more of the following accessories to joint LV paper insulated cable: (indicate) ( ) Resin filled boxes ( ) Polymeric tape ( ) Heat shrink ( ) Slip-on' moulds ( ) Pre-stretched polymeric	□ Yes □ No	

Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	

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Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	50
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9	Candidate successfully uses one or more of the following lugs/connectors to joint LV paper insulated cable: (indicate) ( ) Compression lugs ( ) Mechanical connectors ( ) soldered lugs		□ Yes □ No	
10	Candidate terminates LV paper insulated cable to one or more of the following equipment: (indicate) ( ) Busbar/termination box ( ) Links/Fuses ( ) Disconnect boxes ( ) Termination boxes ( ) Control gear		□ Yes □ No	
Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	51				
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11	Candidate terminates LV paper insulated cable in one or more of the following enclosures: (indicate) ( ) Transformer ( ) Ring main units ( ) Chamber substations ( ) LV switchboards ( ) Pillars / turrets ( ) Lighting columns ( ) Circuit Breakers	□ Yes □ No	
12	Candidate performs insulation resistance tests on LV paper insulated cable joints to verify compliance	□ Yes □ No	

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	52		
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Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
13	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No	
14	Candidate follows instructions and safe work methods/procedures at all times		□ Yes □ No	
15	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel		□ Yes □ No	

ſ	Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:
	Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	53
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Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
16	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No	
Com	pleting work tasks			
17	Candidate returns work permit(s) and/or access authorisation(s)		□ Yes □ No	
18	Work area is cleaned and tools, equipment and materials are cleaned and stored		□ Yes □ No	

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	54			
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Con	Completing work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
19	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No			
20	Candidate completes works completion records, report forms/data sheets accurately		□ Yes □ No			

#### END OF ASSESSMENT

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Managing Director								
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Assessor Comments							
Assessment Outcome							
work tasks autonomously	y, to requirements ar	e candidate can prepare f nd time-frames typically e rrent stage through their t	xpected in the	e industry, and	at	□ Yes	□ No
I have made the determine candidate's workplace:	nation above, based	on evidence collected by	using a varie	ety of assessm	ent methods	, as detailed a	above, utilised in the
Assessor:							
Signature:		Dat	e:			_	
	Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:	
	Craig Murray  Document: /tempOutput/5236	Rod Hart 61342-52b4-4f31-ae44-f39e0570c382/N	27/01/2013 Verged document pdf	Q Jeremy	Last print date: (	56 02/07/22	



Candidate Feedback (	including gaps and	improvement strategies	if required)					
Candidate Declaration I have been informed of		ult, the reasons behind the	e determination	n and a strate	av for impro	vement if	f necessary.	
		ant, and reacons 2011ing and			gy 101p. 0			
Candidate:								
Signature:		Dat	e:					
	Authorised by: Managing Director Craig Murray	General Manager - Electro Group  Rod Hart	Release Date: 27/01/2013	Author: Q Jeremy	Revision No:	Page:		
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#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	ment	Competency Standard Unit (CSU) Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	
	1	UEENEEE101A UEENEEE102A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ22A		2	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ22A		3	UEENEEE101A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ22A
	4	UETTDREL11A		5	UETTDRCJ21A UETTDRCJ22A		6	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A UETTDRCJ21A UETTDRCJ22A
	7	UEENEEE101A UETTDRCJ22A		8	UEENEEE101A UETTDRCJ22A		9	UEENEEE101A UETTDRCJ22A
	10	UEENEEE101A UETTDRCJ21A UETTDRCJ22A		11	UEENEEE101A UETTDRCJ22A		12	UEENEEE101A UETTDRCJ21A UETTDRCJ22A

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	58		
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Eler	ment	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)		nent	Competency Standard Unit (CSU)
	13	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ22A		14	UEENEEE101A UETTDRCJ21A UETTDRCJ22A		15	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ22A
	16	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ22A		17	UEENEEE101A UETTDRCJ21A UETTDRCJ22A		18	UEENEEE102A UETTDREL11A UETTDRCJ21A UETTDRCJ22A
	19	UEENEEE101A UETTDRCJ21A UETTDRCJ22A		20	UEENEEE101A UETTDRCJ21A UETTDRCJ22A			



#### **Workplace Assessment**

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Authorised by:

Managing Director Craig Murray Candidate:

General Manager - Electro Group

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# Install & Maintain Underground LV Polymeric Cables

Employer: _			
Date: _			
Workplace Assessment Details			
Candidate Name:	Employer:		
Janaiaate Name.			
Assessor Name:	Date:	Time:	
Work Location:			

Release Date:

27/01/2013

Author:

Q Jeremy

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#### Methods of assessment key:

WO = Workplace Observation P = Portfolio

Q = Questioning TPF = Third Party Feedback

SA = Structured Activities RP = Review of Products

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

#### **Performance Elements**

ı	Preparing to undertake work			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	61		
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1	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed	□ Yes □ No	
2	Candidate receives and confirms OHS procedures, and participates in Job Safety Analysis (JSA)	□ Yes □ No	
3	Candidate identifies and obtains required work permits	□ Yes □ No	

Pre	paring to undertake work			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:			
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	62			
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4	Candidate identifies risks to the environment related to the work to be performed	□ Yes □ I	No	
5	Candidate identifies and confirms arrangements for traffic management	□ Yes □ I	No	
Carr	ying out work tasks			
6	Candidate verifies / confirms that systems and circuits to be worked on are isolated and proved safe	□ Yes □ I	No	

Ca	rrying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	63
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7	Candidate joints underground LV polymeric cable using one or more of the following joints: (indicate) ( ) Tee-off joints ( ) Straight through joints ( ) Parallel branch joints ( ) Parallel joints	□ Yes □ No	
8	Candidate successfully uses one or more of the following accessories to joint LV polymeric cable: (indicate) ( ) Resin filled boxes, ( ) Compound filled boxes ( ) Polymeric tape ( ) Heat shrink ( ) Slip-on' moulds ( ) Pre-stretched polymeric	□ Yes □ No	

Car	rying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Managing Director	-				-
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	64
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9	Candidate successfully uses one or more of the following lugs/connectors to joint LV polymeric cable: (indicate) ( ) Compression lugs ( ) Welded connections ( ) Mechanical connectors ( ) Insulation piercing connectors		□ Yes □ No		
10	Candidate terminates LV polymeric cable to one or more of the following pieces equipment: (indicate) ( ) Busbar/termination boxes ( ) Links/Fuses ( ) Disconnect boxes ( ) Termination boxes ( ) Control gear ( ) Circuit breakers		□ Yes □ No		
Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	65
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11	Candidate terminates LV polymeric cable in one or more of the following enclosures: (indicate) ( ) Transformer ( ) LV switchboards ( ) Pillars/turrets ( ) Lighting columns ( ) Ring main units ( ) Chamber substations		□ Yes □ No			
12	Candidate performs insulation resistance tests on LV polymeric cable joints to verify compliance		□ Yes □ No			
13	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No			
Carr	Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		

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14	Candidate follows instructions and safe work methods/procedures at all times	□ Yes □ No	
15	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel	□ Yes □ No	
16	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel	□ Yes □ No	

С	ompleting work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Managing Director					_
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17	Candidate returns work permit(s) and/or access authorisation(s)	□ Yes □ No	
18	Work area is cleaned and equipment and materials are cleaned and stored	□ Yes □ No	
19	Candidate notifies appropriate personnel of work completion according to established procedures	□ Yes □ No	

Completing work tasks							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			

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Managing Director	-				_
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	68
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20	Candidate completes works completion records, report forms/data sheets accurately				
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#### **END OF ASSESSMENT**

Assessor Comments		

#### Assessment Outcome

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	69		
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The evidence gathered demonstrates that the candidate can work tasks autonomously, to requirements and time-frames ty a level of competency that reflects his/her current stage throu	pically expected in the industry, and at	□ Yes	□ No				
I have made the determination above, based on evidence collected by using a variety of assessment methods, as detailed above, utilised in the candidate's workplace:							
Assessor:							
Signature:	Date:						

Authorised by:	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:				
Managing Director	Dadllad	07/04/0040	0.1		70				
Craig Murray	Rod Hart	27/01/2013	Q Jeremy		70				
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Candidate Feedback (	Candidate Feedback (including gaps and improvement strategies if required)							
Candidate Declaration		sult, the reasons behind the	a determination	and a strate	agy for impro	vement if	necessary	
Thave been informed of	the assessment res	suit, the reasons bening the	e determination	i and a strate	gy ioi iiripio	vernent n	necessary.	
Candidate:								
Signature:		Dat	e:			_		
	Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:		
	Craig Murray Document: /tempOutput/52	Rod Hart 361342-52b4-4f31-ae44-f39e0570c382/M	27/01/2013 lerged document.pdf	Q Jeremy	Last print date: (	71 02/07/22		



#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Elen	ment	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	1	UEENEEE101A UEENEEE102A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ26A		2	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ26A		3	UEENEEE101A UEENEEE107A UETTDREL11A UETTDRCJ21A UETTDRCJ26A
	4	UETTDREL11A		5	UETTDRCJ21A UETTDRCJ26A		6	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A UETTDRCJ21A UETTDRCJ26A
	7	UEENEEE101A UETTDRCJ26A		8	UEENEEE101A UETTDRCJ26A		9	UEENEEE101A UETTDRCJ26A
	10	UEENEEE101A UETTDRCJ21A UETTDRCJ26A		11	UEENEEE101A UETTDRCJ21A UETTDRCJ26A		12	UEENEEE101A UETTDRCJ21A UETTDRCJ26A

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Managing Director									
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	72				
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Eler	ment	Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	13	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ26A		14	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ26A		15	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ26A
	16	UEENEEE101A UETTDREL11A UETTDRCJ21A UETTDRCJ26A		17	UEENEEE101A UETTDRCJ21A UETTDRCJ26A		18	UEENEEE102A UETTDREL11A UETTDRCJ21A UETTDRCJ26A
	19	UETTDRCJ21A UETTDRCJ26A		20	UETTDRCJ21A UETTDRCJ26A			



### Workplace Assessment

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# Install & Maintain Network Infrastructure Electrical Equipment

Candidate:	
Employer:	
Date:	

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### **Workplace Assessment Details** Candidate Name: **Employer:** Assessor Name: Date: Time: **Work Location:** Methods of assessment key: WO Workplace Observation = Portfolio Questioning Third Party Feedback SA = Structured Activities = Review of Products RP

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	75
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### Assessment Elements

Emp	oloyability skills			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
1	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No	
Pre	paring to undertake work		,	
2	Candidate receives and confirms instructions and procedures related to the work to be performed		□ Yes □ No	

	Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:
Craig Murray Rod Hart 27/01/2013				Q Jeremy	1	76
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Candidate receives and confirms OHS procedures, and participates in Job Safety Analysis (JSA)	□ Yes □ No	
---	------------	--

Prep	Preparing to undertake work				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
4	Candidate identifies and obtains required work permits		□ Yes □ No		
5	Candidate identifies risks to the environment related to the work to be performed		□ Yes □ No		

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	77
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6	Candidate identifies and confirms arrangements for traffic management	□ Yes □ No	
7	Candidate selects tools, PPE and equipment appropriate to carry out the task	□ Yes □ No	

Carı	Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
8	Candidate installs / maintains three or more of the following devices / equipment: (indicate) ( ) Fuse switches ( ) Dropout fuses ( ) Sectionalisers ( ) Disconnectors ( ) Links ( ) Fuses ( ) Surge arrestors		□ Yes □ No			

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Managing Director	-				_
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9	Candidate installs / maintains one or more of the following devices / equipment: (indicate) ( ) Reclosers ( ) Motorised switches ( ) Gas filled switches ( ) Ring main units ( ) Line fault indicators ( ) Oil filled switches ( ) Air break switches		□ Yes □ No	
Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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11	Candidate uses three or more of the following test equipment to verify network infrastructure installations: (indicate) ( ) Voltage detectors ( ) Phasing equipment ( ) Clip-on ammeters ( ) Insulation resistance testers ( ) Recording meters ( ) Earth resistance tester		□ Yes □ No				
Carr	Carrying out work tasks						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			

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Managing Director					
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	80
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13	Candidate follows instructions and safe work methods/procedures at all times	□ Yes □ No	
14	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel	□ Yes □ No	

Carı	Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
15	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No			

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Com	Completing work tasks					
16	Candidate returns work permit(s) and/or access authorisation(s)		□ Yes □ No			
17	Work area is cleaned and tools, equipment and materials are cleaned and stored		□ Yes □ No			
Com	npleting work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
18	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No			

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	82
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END OF ASSESSMENT

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Assessor Comments							
<b>Assessment Outcome</b>							
The evidence gathered d							
work tasks autonomously a level of competency that					at	□ Yes	□ No
a level of competency the	at reflects The/fiel Ct	intent stage through their	training progra	1111.			
I have made the determine	nation above, based	on evidence collected by	using a variet	y of assessme	ent methods	s, as detailed a	above, utilised in the
candidate's workplace:							
Assessor:							
Signature:		Dat	e:			_	
	Authorised by:	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:	
	Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	84	
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Candidate Fe	eedback (i	ncluding gaps and	improvement strategies	if required)					
Candidate De	oclaration								
		the assessment resu	ult, the reasons behind the	e determinatio	on and a strate	gy for impro	ovement i	f necessary.	
Candidate:									
Signature:			Dat	e:					
		Authorised by: Managing Director	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:		
		Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	85		
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### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	ment	Competency Standard Unit (CSU)	Eler	lement Competency Standard Unit (CSU) Element		ment	Competency Standard Unit (CSU)	
	1	UEENEEE101A Employability Skills		2	UEENEEE101A UETTDREL11A UETTDRIS41A UETTDRIS42A		3	UEENEEE101A UETTDRIS41A UETTDRIS42A
	4	UEENEEE101A UETTDRIS41A UETTDRIS42A		5	UETTDREL11A UETTDRIS41A UETTDRIS42A		6	UEENEEE101A UETTDRIS41A UETTDRIS42A
	7	UEENEEE101A UEENEEE102A UETTDRIS41A UETTDRIS42A		8	UEENEEE101A UETTDRIS41A UETTDRIS42A		9	UEENEEE101A UETTDRIS41A UETTDRIS42A
	10	UEENEEE101A UETTDRIS41A UETTDRIS42A		11	UEENEEE101A UETTDRIS41A UETTDRIS42A		12	UEENEEE101A UETTDREL11A UETTDRIS41A UETTDRIS42A

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Managing Director							
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	86		
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	13	UEENEEE101A UETTDRIS41A UETTDRIS42A		14	UEENEEE101A UETTDREL11A UETTDRIS41A UETTDRIS42A		15	UEENEEE101A UETTDRIS41A UETTDRIS42A
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Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	16	UEENEEE101A UETTDRIS41A UETTDRIS42A		17	UEENEEE101A UEENEEE102A UETTDREL11A UETTDRIS41A UETTDRIS42A		18	UEENEEE101A UETTDRIS41A UETTDRIS42A
	19	UEENEEE101A UETTDRIS41A UETTDRIS42A						



### **Workplace Assessment**

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# Install & Maintain Overhead Conductors & Cables

Candidate:	
Employer:	
Date:	

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	88		
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# Workplace Assessment Details Candidate Name: Employer: Assessor Name: Date: Time: Work Location: Methods of assessment key: WO = Workplace Observation P = Portfolio Q = Questioning TPF = Third Party Feedback

The candidate will be assessed by one or more of the following methods:

SA = Structured Activities

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities

= Review of Products

structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play

RP

- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	89		
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### **Assessment Elements**

Prep	paring to undertake work			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
1	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed		□ Yes □ No	
2	Candidate participates in and contributes to Job Safety Analysis (JSA)		□ Yes □ No	
3	Candidate has an understanding of safe work methods, work permits and associated procedures		□ Yes □ No	

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Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	90			
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Prep	reparing to undertake work				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
4	Candidate identifies risks to the environment related to the work to be carried out		□ Yes □ No		
5	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No		
6	Candidate selects tools, PPE and equipment appropriate to carry out the task		□ Yes □ No		

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Prep	earing to undertake work			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
7	Candidate identifies and confirms arrangements for traffic management		□ Yes □ No	
Carr	ying out work tasks			
8	Candidate installs / maintains one or more of the following conductors, cables and configurations: (indicate)  Copper Aluminium Steel LV abc Aluminium reinforced Steel reinforced HV abc HV iuc Pilot rope		□ Yes □ No	

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	92
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Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
9	Candidate safely uses one or more of the following plant and equipment: (indicate)   EWP  Portable platform  Ladder		□ Yes □ No	
10	Candidate safely uses one or more of the following pieces of equipment: (indicate)  Cable drum stands  Cable trailers  Ropes Stockings Stringing equipment Swivels Winches		□ Yes □ No	

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Managing Director					
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Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
11	Candidate successfully and safely operates tensioning equipment		□ Yes □ No		
12	Candidate safely uses one or more of the following test equipment: (indicate)  Phasing sticks Fault indicators Field intensity meter Operating rods		□ Yes □ No		
13	Candidate safely uses one or more of the following instruments: (indicate)  Dynamometer Site board Beat (wave sagging) Abney level Theodolite		□ Yes □ No		

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Managing Director					
Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	94
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Carr	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
14	Candidate participates in one or more of the following overhead conductor installation techniques: (indicate)  Lay-out (stringing method) Pull through (stringing method) Pilot rope (stringing method)		□ Yes □ No	
15	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No	

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Carr	Carrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
16	Candidate follows instructions and safe work methods/procedures at all times		□ Yes □ No		
17	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel		□ Yes □ No		
18	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No		

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Com	Completing work tasks							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
19	Candidate returns work permit(s) and/or access authorisation(s)		□ Yes □ No					
20	Work area is cleaned and tools, equipment and materials are cleaned and stored		□ Yes □ No					
21	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No					

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Com	Completing work tasks							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
22	Candidate completes works completion records, report forms/data sheets accurately		□ Yes □ No					

#### END OF ASSESSMENT

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Assessor Comments							
Assessment Outcome							
The evidence gathered downk tasks autonomously a level of competency that	, to requirements ar	nd time-frames typically e	xpected in the	industry, and	at	□ Yes	□ No
I have made the determin candidate's workplace:	I have made the determination above, based on evidence collected by using a variety of assessment methods, as detailed above, utilised in the candidate's workplace:						
Assessor:							
Signature:		Dat	e:				
	Authorised by: Managing Director Craig Murray	General Manager - Electro Group  Rod Hart 1342-52b4-4f31-ae44-f39e0570c382/N	Release Date: 27/01/2013	Author: Q Jeremy	Revision No:  1 Last print date:	Page: 99	



Candidate Feedback (ir	ncluding gaps and	I improvement strategies	if required)				
Candidate Declaration							
I have been informed of t	the assessment res	sult, the reasons behind the	e determinatioi	n and a strate	egy for impro	vement if	necessary.
Candidate:							
Signature:		Dat	e:				
	Authorised by:	General Manager - Electro Group	Release Date:	Author:	Revision No:	Page:	
	Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremy	1	100	



### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)
	1	UEENEEE107A UETTDRIS54A		2	UEENEEE101A UETTDRIS54A		3	UEENEEE101A UETTDRIS54A
	4	UETTDREL11A UETTDRIS54A		5	UEENEEE101A Employability Skills		6	UEENEEE101A UEENEEE102A UETTDRIS54A
	7	UEENEEE101A UETTDRIS54A		8	UEENEEE101A UETTDRIS54A		9	UEENEEE101A UETTDRIS54A
	10	UEENEEE101A UETTDRIS54A		11	UEENEEE101A UETTDRIS54A		12	UEENEEE101A UETTDRIS54A
	13	UEENEEE101A UETTDREL11A UETTDRIS54A		14	UEENEEE101A UETTDRIS54A		15	UETTDREL11A UETTDRIS54A

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	16	UEENEEE101A UETTDRIS54A		17	UEENEEE101A UETTDREL11A UETTDRIS54A		18	UEENEEE101A UETTDRIS54A
--	----	----------------------------	--	----	---	--	----	----------------------------

Eler	ment	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Eler	ment	Competency Standard Unit (CSU)
	19	UEENEEE101A UETTDRIS54A		20	UEENEEE101A UEENEEE102A UETTDREL11A UETTDRIS54A		21	UETTDRIS54A
	22	UEENEEE101A UETTDRIS54A						



### **Workplace Assessment**

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# Install & Maintain Poles & Associated Hardware

Candidate:	
Employer:	
Date:	

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Managing Director Craig Murray	Rod Hart	27/01/2013	Q Jeremv	1	103	
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### **Workplace Assessment Details** Candidate Name: **Employer:** Assessor Name: Date: Time: **Work Location:** Methods of assessment key: WO Workplace Observation = Portfolio Questioning Third Party Feedback SA = Structured Activities = Review of Products RP

The candidate will be assessed by one or more of the following methods:

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities
- structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play
- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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### Assessment Elements

Emp	Employability skills					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
1	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No			
Pre	Preparing to undertake work					
2	Candidate receives and confirms instructions and procedures related to the work to be performed		□ Yes □ No			

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Prep	Preparing to undertake work					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
4	Candidate identifies and obtains required work permits		□ Yes □ No			
5	Candidate identifies risks to the environment related to the work to be performed		□ Yes □ No			

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6	Candidate identifies and confirms arrangements for traffic management	□ Yes □ No	
7	Candidate selects tools, PPE and equipment appropriate to carry out the task	□ Yes □ No	

Carı	Carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
8	Candidate installs / stabilises / maintains one or more of the following pole types: (indicate) ( ) Wood ( ) Steel ( ) Concrete ( ) Composite		□ Yes □ No			

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Cai	rying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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10	Candidate participates in one or more of the following techniques to install / maintain poles, structures and/or their associated hardware: (indicate) ( ) Crane ( ) Auger/erector ( ) 'A' frame ( ) Lifting beam ( ) Pole pikes ( ) Helicopter lift	□ Yes □ No	
11	Candidate performs one or more of the following: (indicate) ( ) Baulking ( ) Stays ( ) Concreting (including foundations)	□ Yes □ No	

Carı	ying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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12	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment	□ Yes □ No	
13	Candidate follows instructions and safe work methods/procedures at all times	□ Yes □ No	
14	Candidate confirms procedures to deal with non- routine events, provides suitable solutions and/or refers events to authorised personnel	□ Yes □ No	

Carrying out work tasks									
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments					

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15	Candidate confirms procedures for repo accidents and/or included authorised personners.	rting cidents to			□ Yes	□ No						
Com	pleting work tasks											
16	Candidate returns w permit(s) and/or acc authorisation(s)				□ Yes	□ No						
17	Work area is cleane tools, equipment an materials are cleane stored	d			□ Yes	□ No						
Com	Completing work tasks											
	Performance Elem	ent		ods of sment	Succes		Assessor	Comments			 	
		Authorised by: Managing Directo Craig Murray Document: /tempo		Rod Hart	nager - Electro (	2	Release Date: 27/01/2013 ged_document.pdf	Author: Q Jeremy	Revision No:  1 Last print date:	Page: 111 02/07/22		



18	Candidate notifies appropriate personnel of work completion according to established procedures	□ Yes □ No	
19	Candidate completes works completion records, report forms/data sheets accurately	□ Yes □ No	

#### END OF ASSESSMENT

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Assessor Comments						
Assessment Outcome						
The evidence gathered demonstrates that the candidate can prepare for, carry out and complete work tasks autonomously, to requirements and time-frames typically expected in the industry, and at a level of competency that reflects his/her current stage through their training program:						
I have made the determination above, based on evidence collected by using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, using a variety of assessment methods, as detailed above, and a variety of assessment methods are also as a variety of a variety of assessment methods.	ıtilised in the					
Assessor:						
Signature: Date:						
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Candidate Feedback (	including gaps and	improvement strategies	if required)					
Candidate Declaration Lhave been informed of		ult, the reasons behind the	e determination	n and a strate	av for impro	vement if	f necessary	
Thave seen intermed e	Tario dococomone roc	an, and readens bermid and		Tana a onato	gy for impro	voilloile ii	mooddary.	
Candidate:								
Signature:		Dat	e:			_		
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Competency	Map &	Checklist
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The competency map below indicates which CSUs relate to each performance element of the assessment.

Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	1	UEENEEE101A Employability Skills		2	UEENEEE101A UETTDREL11A UETTDRIS52A		3	UEENEEE101A UETTDRIS52A
	4	UEENEEE101A UETTDRIS52A		5	UETTDREL11A UETTDRIS52A		6	UEENEEE101A UETTDRIS52A
	7	UEENEEE101A UEENEEE102A UETTDRIS52A		8	UEENEEE101A UEENEEE105A UETTDRIS52A		9	UEENEEE101A UEENEEE105A UETTDRIS52A
	10	UEENEEE101A UETTDRIS52A		11	UEENEEE101A UETTDRIS52A		12	UETTDRIS52A UEENEEE101A UETTDREL11A
	13	UEENEEE101A UETTDRIS52A		14	UEENEEE101A UEENEEE105A UETTDREL11A UETTDRIS52A		15	UEENEEE101A UETTDRIS52A

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Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)	Element		Competency Standard Unit (CSU)
	16	UEENEEE101A UETTDRIS52A		17	UEENEEE101A UEENEEE102A UETTDREL11A UETTDRIS52A		18	UEENEEE101A UETTDRIS52A
	19	UEENEEE101A UETTDRIS52A						



# Workplace Assessment Solve Problems in Circuits

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Candidate: _	
Employer: _	
Date:	

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#### **Workplace Assessment Details** Candidate Name: **Employer:** Assessor Name: Date: Time: **Work Location:** Methods of assessment key: WO Workplace Observation = Portfolio Third Party Feedback

The candidate will be assessed by one or more of the following methods:

Questioning

SA = Structured Activities

- workplace observation, whereby the assessor watches the candidate carry out a task as part of his or her normal work duties
- questioning, whereby the assessor asks the candidate questions to determine his or her understanding of underpinning knowledge, in relation to relevant workplace activities

= Review of Products

structured activities, whereby the assessor observes the candidate participate in a simulation, scenario or role play

RP

- portfolio, whereby the assessor collects evidence from the workplace, such as workplace documents, that demonstrate that the candidate has participated in relevant workplace activities
- third party feedback, whereby the assessor conducts one or more interviews with the candidate's supervisor(s) and / or peers to gain information relating to the candidate's performance in the workplace
- review of products, whereby the assessor reviews samples of work, completed by the candidate, in the workplace

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### Assessment Elements

Emp	Employability skills						
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments			
1	Candidate arrives at work ontime, with required tools, PPE and equipment		□ Yes □ No				
Prep	paring to undertake work						
2	Candidate participates in and contributes to Job Safety Analysis (JSA)		□ Yes □ No				

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Prep	Preparing to undertake work							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
4	Candidate identifies risks to the environment related to the work to be carried out		□ Yes □ No					
5	Candidate analyses and confirms work schedule / plans / drawings and procedures related to the work to be performed		□ Yes □ No					

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Carı	arrying out work tasks				
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments	
7	Candidate can draw on underpinning knowledge and skills to identify the cause of loss of supply		□ Yes □ No		
8	Candidate can verify that circuits are isolated and proved safe		□ Yes □ No		

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Carr	rying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
10	Candidate can draw on underpinning knowledge and skills to develop circuits for a given specification relevant to the workplace		□ Yes □ No	
11	Candidate can perform tests to verify that circuits are safe / compliant		□ Yes □ No	

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Carr	carrying out work tasks					
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments		
13	Candidate implements work practices to minimise waste, conserve energy, recycle materials and protect the environment		□ Yes □ No			
14	Candidate follows instructions and safe work methods/procedures at all times		□ Yes □ No			

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Carr	rying out work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments
16	Candidate confirms procedures for reporting accidents and/or incidents to authorised personnel		□ Yes □ No	
Con	npleting work tasks			
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments

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Con	Completing work tasks							
	Performance Element	Methods of Assessment	Successfully Demonstrated	Assessor Comments				
18	Candidate notifies appropriate personnel of work completion according to established procedures		□ Yes □ No					
19	Candidate completes works completion records, report forms/data sheets accurately		□ Yes □ No					

#### END OF ASSESSMENT

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Assessor Comments							
Accomment Outcome							
Assessment Outcome							
The evidence gathered d work tasks autonomously a level of competency that	, to requirements ar	nd time-frames typically e	xpected in the	industry, and	at	□ Yes	□ No
I have made the determing candidate's workplace:	nation above, based	on evidence collected by	using a varie	ty of assessm	ent methods	s, as detailed	above, utilised in the
Assessor:							
Signature:		Dat	e:				
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Candidate Feedback (	including gaps and	improvement strategies	if required)					
Candidate Declaration Lhave been informed of		ult, the reasons behind the	e determination	n and a strate	av for impro	ovement it	f necessary	
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#### **Competency Map & Checklist**

The competency map below indicates which CSUs relate to each performance element of the assessment.

Elen	ment	Competency Standard Unit (CSU)	Element		Element		Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)
	1	UEENEEE101A Employability Skills		2	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		3	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		
	4	UETTDREL11A		5	UEENEEE101A UEENEEE107A UEENEEE104A UEENEEG101A UEENEEG102A		6	UEENEEE101A UEENEEE102A UEENEEE104A UEENEEG101A UEENEEG102A		
	7	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		8	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		9	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		
	10	UEENEEE101A UEENEEG101A UEENEEG102A		11	UEENEEE101A UEENEEG101A UEENEEG102A		12	UEENEEE101A UEENEEG101A UEENEEG102A		

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Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)	Eler	nent	Competency Standard Unit (CSU)
	13	UETTDREL11A		14	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		15	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A
	16	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A		17	UEENEEE101A UEENEEE102A UEENEEE104A UEENEEG101A UEENEEG102A UETTDREL11A		18	UEENEEE104A UEENEEG101A UEENEEG102A
	19	UEENEEE101A UEENEEE104A UEENEEG101A UEENEEG102A						

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#### **Example Questions**

#### Element 1

- a. What PPE, tools and equipment have you brought to work today?
- b. What PPE, tools and equipment would be necessary to determine whether a circuit to be worked on is safe?

#### Element 2

 a. Give a brief outline of your enterprise procedures for JSA / prework brief

#### Element 3

- a. Explain what is meant by the 'electrical safe work area'?
- b. Before any work is commenced what are you as a worker supposed to do?
- c. What is an electrical permit and when and why is it required?
- d. Who signs on to the electrical permit?

#### Element 4

- a. What do you do if your machine breaks a hose?
- b. Who do you report spills too?
- c. Can you interfere with any flora and fauna?
- d. Describe your enterprise procedures relating to sustainable energy practices and protection of the environment

#### Element 5

- a. What documentation is required to determine the scope of works?
- b. Where would we get these documents?
- c. If you're not sure of something, who would you seek advice from?

#### Element 6

a. If you needed to determine the cause of a loss of supply to a track, what tools / equipment would you require?

#### Element 7

- a. What could cause a loss of the alternating current supply to a substation
- b. Describe the function of a traction substation?
- c. What voltages supply a traction substation?

#### Element 8

- a. Describe your enterprise procedures to verify that the section of the line you are working on is isolated?
- b. How would you know if the circuit was proved safe?

#### Element 9

- a. Why are bag feeders used?
- b. Describe the purpose of potential jumpers

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Example Questions	
Element 10  a. Describe the return path of a 1500 volt rail traction system b. List the procedure you must follow before you cut a rail? c. Explain how the 1500 volt circuit is completed  Element 11  a. What compliance testing is required to be carried out when the 1500 volt rail traction system is isolated?	

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