







ELECTRICAL MACHINE WINDING TECHNICIAN



ASSESSMENT PACKAGE

National Vocational Certificate Level 2

Version 1 - September, 2018





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ELECTRICAL MACHINE WINDING TECHNICIAN



ASSESSMENT PACKAGE National Vocational Certificate Level 2

Version 1 - September, 2018

This formative assessment relates to the training programme:	CS Code:	Level: 2	Version:		
Electrical Machine Winding Technician					
Madula Titla	Assessment Date (DD/MM/YY):				
Module Title: Comply Personal Health and Safety Guidelines	Assessment L	Pate (DD/MIM/Y Y):		

Candidate Details	Name:
	Registration/Roll Number:
Guidance for Candidate	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment): Assessment Task 1: Identify Hazards at Workplace Assessment Task 2: Apply Personal Protective and Safety Equipment (PPE) Assessment Task 3: Comply Occupational Safety and Health (OSH) Assessment Task 4:Dispose of hazardous Waste/materials from the designated area
	And complete:
	 Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
Minimum	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5: Performance Criteria 6:
Minimum Evidence Required	Assessment Task 2 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:
	Assessment Task 3 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:

Portfolios required at the time of assessment (if any) like trainees assignment, Project job etc:
Performance criteria 1 for the evaluation of portfolio
Performance criteria 2 for the evaluation of portfolio
Performance criteria 3 for the evaluation of portfolio

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	Š
Assessment Outcome	Name of the Assessor: Signature of the Assessor:	

Assessment Summary (to be filled by the assessor)								
Activity		Method				Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓		✓			
Knowledge Assessment	✓	✓						
Other Requirement				✓				

Each Assessment Task (with performance criteria)						
Assessment Task 1 : Identify Hazards at Workplace	Description of assessment task 1					

During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria1:				
2	Performance criteria2:				
3	Performance criteria3:				
4	Performance criteria4:				
5	Performance criteria5				
6 Performance criteria6:					
Competent ☐ Not Yet Compe		tent 🗆			

Each Assessment Task (with performance criteria)						
	sment Task 2 : Apply Personal tive and Safety Equipment (PPE)	Description of a	assessi	ment ta	sk 1	
During followin	the practical assessment, candidate deng:	monstrated the	Yes	No	Remarks	
1	Performance criteria1:					
2	Performance criteria2:					
3	Performance criteria3:					
4	Performance criteria4:					
5	Performance criteria5					
6 Performance criteria6:						
Compe	etent	Not Yet Compe	tent 🗆			

Each A	Assessment Task (with performance crite	eria)			
	sment Task 3 : Comply Occupational and Health (OSH)	Description of a	assessi	ment ta	ask 1
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria1:				
2	Performance criteria2:				-
3	Performance criteria3:				1
4	Performance criteria4:				
5	Performance criteria5		<u> </u>	<u> </u>	
6	Performance criteria6:				
Compe	etent 🗆	Not Yet Compe	etent 🗆	 	
Each A	Assessment Task (with performance crite	eria)			
	sment Task 4 : Dispose of hazardous //materials from the designated area	Description of	assessi	ment ta	ask 1
During followin		monstrated the	Yes	No	Remarks
1	Performance criteria1:				
2	Performance criteria2:				7
3	Performance criteria3:				<u> </u>
4	Performance criteria4:				
5	Performance criteria5				
6	Performance criteria6:				
Compe	etent 🗆	Not Yet Compe	etent \square	<u> </u>	
Portfoli	io(if any)	Description of	portfolic)	
Current	nt□ Sufficient□ Authenti	ic□ Valid			Reliable \square
Portfoli	io meet the following performance stand	lards:	Yes	No	Remarks
1	Performance criteria 1				
2	Performance criteria 2				1
3	Performance criteria 3				1
4					
Competent ☐ Not Yet		Not Yet Compe	etent \Box]	

Assessors Judgment Guide TITLE OF QUALIFICATION

training prog	ssessment relates to the time: Winding Technician	CS Code:	Leve	l: 1	Version:			
Competency Comply Pers	ndard Title: Health and Safety Guidelines	Assessment Date (DD/MM/YY):						
Guidance for Candidate		complete your assessment for a questions on the following page			ile, you ne	eed to answer		
Assessors Gu candidate afte		(to be completed by the Assessor assessment)	and signed	both by the	e assessor	and the		
Candidate Details Name: Candidate Signature:				Registration/Roll Number:				
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:			s code:				
Title of Qualification: Electrical Machine Winding Technician			(CS Code:	Level:	Version:		
Module Title: Comply Personal Health and Safety Guidelines				Assessme	 nt Date (D	DD/MM/YY):		

Question	Candidate's answer
1.	
2.	
-	
3.	
4.	
5.	
0.	
6.	
7.	

This formative assessment relates to the training programme:	CS Code:	Level: 2	Version:
Electrical Machine Winding Technician			
Module Title: Communicate the Workplace Policy and procedure	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name:
	Registration/Roll Number:
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):
Guidance for Candidate	Assessment Task 1. Identify workplace communication procedures Assessment Task 2. Communicate at workplace Assessment Task 3. Draft Written Information Assessment Task 4. Review Documents
	And complete:
	 Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5: Performance Criteria 6:
Minimum Evidence Required	Assessment Task 2 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:
	Assessment Task 3
	Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:

Portfolios required at the time of assessment (if any) like trainees assignment, Project job etc:
Performance criteria 1 for the evaluation of portfolio
Performance criteria 2 for the evaluation of portfolio
Performance criteria 3 for the evaluation of portfolio

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	Š
Assessment Outcome	Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT

Assessment Summary (to be filled by the assessor)									
Activity			Method	i		Result			
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent		
Practical Skill Demonstration			✓		✓				
Knowledge Assessment	✓	✓							
Other Requirement				✓					

Each Assessment Task (with performance criteria)				
Assessment Task 1 : Identify workplace communication procedures	Description of assessment task 1			

During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria1:				
2	Performance criteria2:				-
3	Performance criteria3:				
4	Performance criteria4:				
5	Performance criteria5				
6	Performance criteria6:				
Comp	etent	Not Yet Compe	tent 🗆		
Asses workp	sment Task 2: Communicate at blace	Description of	assessi	ment ta	ask 2
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1:				
2	Performance criteria2:]
3	Performance criteria3:				
4	Performance criteria4:				1
5	Performance criteria5:				
Comp	etent 🗆	Not Yet Compe	tent 🗆		
Asses Inforn	sment Task 3: Draft Written nation	Description of	assess	ment ta	ask 2
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1:				
2	Performance criteria2:				1
3	Performance criteria3:				1
4	Performance criteria4:				1
5	Performance criteria5:				
Comp	etent 🗆	Not Yet Compe	tent 🗆	1	1
, and the same of					

Assess	sment Task 4: Review Documents	Description of a	assessr	ment ta	sk 2
During followin	the practical assessment, candidate del ng:	monstrated the	Yes	No	Remarks
1	Performance criteria 1:				
2	Performance criteria2:				
3	Performance criteria3:				
4	Performance criteria4:				
5	Performance criteria5:				
Compe	etent	Not Yet Compe	tent 🗆		
Portfoli	o(if any)	Description of p	portfolic)	
Current	t□ Sufficient□ Authentio	c□ Valid			Reliable
Portfoli	o meet the following performance stand	ards:	Yes	No	Remarks
1	Performance criteria 1				
2	Performance criteria 2				
3	Performance criteria 3				
J	Performance criteria 3]
4					

Assessors Judgment Guide TITLE OF QUALIFICATION

This formation training programmed Electrical Mac	CS Code	:	Level	: 1	Version:		
Module Title Communicate procedure	Assessn	nent D	ate (D	D/MM/YY	/):		
Guidance for Candidate To complete your assessment for this Curriculum Module, you need to answe the questions on the following pages successfully.						eed to answer	
Assessors Gu candidate afte		(to be completed by the Assessor assessment)	and signe	d both	by the	assesso	r and the
Candidate Details		Name:					
Written Assessment Outcome COMPETENT Name of the Assessor: Signature of the Assessor:				Asse	essor's		
This formative assessment relates to the training programme: Electrical Machine Winding Technician			g	CS C	ode:	Level:	Version:
Module Title: Communicate the Workplace Policy and procedure				Asse	ssme	nt Date (I	DD/MM/YY):

Candidate's answer

This formative assessment relates to the training programme: Electrical Machine Winding Technician	CS Code:	Level: 2	Version:
Module Title: Perform Basic Communication (Specific)	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name:
	Registration/Roll Number:
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):
Guidance for Candidate	Assessment Task 1. Assessment Task 2. Assessment Task 3. Communicate in a team to achieve intended outcomes Follow Supervisor's instructions as per organizational SOPs Develop Generic communication skills at workplace
	And complete:
	5. Knowledge assessment test (Written or Oral)6. Portfolios at the time of assessment (if any)
Minimum Evidence Required	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5: Performance Criteria 6:
	Assessment Task 2 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:
	Assessment Task 3 Performance Criteria 1: Performance Criteria 2: Performance Criteria 3: Performance Criteria 4: Performance Criteria 5:

Portfolios required at the time of assessment (if any) like trainees assignment, Project job etc:
Performance criteria 1 for the evaluation of portfolio
Performance criteria 2 for the evaluation of portfolio
Performance criteria 3 for the evaluation of portfolio

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	

Assessment Summary (to be filled by the assessor)								
Activity	Method					Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓		✓			
Knowledge Assessment	✓	✓						
Other Requirement				✓				

Each A	ssessment Task (with performance crite	eria)			
	sment Task 1 : Communicate in a team ieve intended outcomes	Description of assessment task 1			
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria1:				
2	Performance criteria2:				1
3	Performance criteria3:				1
4	Performance criteria4:				
5	Performance criteria5				
6	Performance criteria6:				
Compe	etent \square	Not Yet Competent □			
Each A	ssessment Task (with performance crite	eria)			
Assess	sment Task 2 : Follow Supervisor's	Description of assessment task 1			
instruc	ctions as per organizational SOPs				
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria1:				
2	Performance criteria2:				
3	Performance criteria3:				
4	Performance criteria4:				
5	Performance criteria5				
6	6 Performance criteria6:				
Compe	etent	Not Yet Compe	tent 🗆		

Each A	Each Assessment Task (with performance criteria)					
Assess	sment Task 3: Develop Generic	Description of	Description of assessment task 1			
comm	unication skills at workplace					
During followin	the practical assessment, candidate deng:	monstrated the	Yes	No	Remarks	
1	Performance criteria1:					
2	Performance criteria2:					
3	Performance criteria3:					
4	Performance criteria4:					
5	Performance criteria5					
6	Performance criteria6:	_				
Compe	etent	Not Yet Competent □				
Portfoli	o(if any)	Description of portfolio				
Curren	t□ Sufficient□ Authenti	∟ c□ Valid			Reliable 🗆	
Portfoli	o meet the following performance stand	lards:	Yes	No	Remarks	
1	Performance criteria 1					
2	Performance criteria 2					
3	Performance criteria 3					
4						
Compe	etent 🗆	Not Yet Compe	etent \Box]		

Assessors Judgment Guide TITLE OF QUALIFICATION

This formati training pro		sment relates to the	CS Code	: Leve	l: 1	Version:
Electrical Ma	chine Win	ding Technician				
Module Title Perform Basi	-	nication (Specific)	Assessn	nent Date (D	DD/MM/YY	/):
Guidance for Candidate		olete your assessment f stions on the following p			ile, you n	eed to answer
Assessors Gu candidate afte		e completed by the Asses ssment)	sor and signe	d both by the	e assesso	r and the
Candidate Details						
Written Assessment Outcome COMPETENT Name of the Assessor: Signature of the Assessor:						
This formative assessment relates to the training programme: Electrical Machine Winding Technician			ning	CS Code:	Level:	Version:
Module Title: Perform Basic Communication (Specific)				Assessme	nt Date (I	DD/MM/YY):

Question	Candidate's answer
15.	
16.	
17.	
18.	
19.	
19.	
20.	
21.	

This formative assessment relates to the training programme:	CS Code:	Level: 2	Version:
Electrical Machine Winding Technician			
Module Title: Perform Basic Computer Application (Specific)	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name:					
	Registration/Roll Number:					
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):					
Guidance for Candidate	Assessment Task 1. Create Word Documents Assessment Task 2. Use internet for Browsing					
	And complete:7. Knowledge assessment test (Written or Oral)8. Portfolios at the time of assessment (if any)					
	During a practical assessment, under observation by an assessor, you will complete:					
	Assessment Task 1					
	Performance Criteria 1:					
	Performance Criteria 2:					
	Performance Criteria 3: Performance Criteria 4:					
	Performance Criteria 5:					
	Performance Criteria 6:					
	Assessment Task 2					
	Performance Criteria 1:					
Minimum	Performance Criteria 2: Performance Criteria 3:					
Evidence	Performance Criteria 4:					
Required	Performance Criteria 5:					
	Assessment Task 3					
	Performance Criteria 1:					
	Performance Criteria 2: Performance Criteria 3:					
	Performance Criteria 4:					
	Performance Criteria 5:					
	Portfolios required at the time of assessment (if any) like trainees assignment, Projects /Jobs etc:					
	Performance criteria 1 for the evaluation of portfolio					
	Performance criteria 2 for the evaluation of portfolio					
	Performance criteria 3 for the evaluation of portfolio					

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

(Formative Assessment)

Candidate Details		Name:								
Assessmen Outcome	ıt	COMPETENT Name of the Assessor: Signature of the Assessor:				. Asses	ssor's c			
		Assessm	ent Su	mmarı	ı (to be	filled k	ov the :	266066	or)	
	Activi		ent Su		Method		y tile o	35555		sult
Nature of Activity			Written	Oral	Observation	Portfolio	Role Play	Sompetent		Not Yet Competent
Practical Sk	kill Dem	onstration			✓		✓			
Knowledge	Assess	sment	✓	✓						
Other Requ	iiremen	t				✓				
Each Assessment Task (with performance criteria) Assessment Task 1 : Create Word Description of assessment task 1										
Documents	S									
During the property following:	practica	al assessment, o	candida	ite dem	nonstrat	ed the	Yes	No	Remarks	
1 Per	rformar	nce criteria1:								
2 Per	Performance criteria2:									
3 Per	Performance criteria3:									
4 Per	Performance criteria4:									
5 Per	Performance criteria5									
6 Per	rformar	nce criteria6:								
Competent					Not Yet	Compe	etent \square			

Assessment Task 2: Use internet for Browsing				ask 2
During the practical assessment, candidate defollowing:				Remarks
ria 1:				
ria2:				_
ria3:				
ria4:				-
ria5:				
	Not Yet Competent □			
	Description of	portfolio	0	
Current□ Sufficient□ Authention				Reliable \square
Portfolio meet the following performance stand			No	Remarks
1 Performance criteria 1				
2 Performance criteria 2				
ria 3				
	ment, candidate de ria 1: ria2: ria3: ria4: ria5: nt□ Authenti g performance stand ria 1	ment, candidate demonstrated the ria 1: ria2: ria3: ria4: ria5: Not Yet Competing Performance standards: ria 1	ment, candidate demonstrated the Yes ria 1: ria2: ria3: ria4: ria5: Not Yet Competent	ment, candidate demonstrated the Yes No ria 1: ria2: ria3: ria4: ria5: Description of portfolio

Not Yet Competent □

Competent □

Assessors Judgment Guide TITLE OF QUALIFICATION

This formati training prog	re assessment relates to the gramme:	CS Code	: Leve	l: 1	Version:		
Electrical Mad	chine Winding Technician						
Module Title	:	Assessm	nent Date (D	D/MM/YY	') :		
Perform Basi	c Computer Application (Specific)						
Guidance for Candidate To complete your assessment for this Curriculum Module, you need to answer the questions on the following pages successfully.							
Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)							
Candidate Details			Registration/Roll Number:				
	Candidate Signature						
	COMPETENT□		NOT YET COMPETENT□				
Written Assessment	Name of the Assessor:		Assessor's code:				
Outcome	Signature of the Assessor:						
This formation programme: Electrical Mac	ning	CS Code:	Level:	Version:			
Module Title: Perform Basic Computer Application (Specific)			Assessme	 nt Date (I	DD/MM/YY):		

Question	Candidate's answer
22.	
23.	
04	
24.	
25.	
26.	
27.	
28.	

This formative assessment relates to the training programme: Electrical Machine Winding Technician	CS Code: 0713001125	Level: 2	Version:
Module Title: Maintain Tools Equipments and Machinery	Assessment D	Date (DD/MM/YY):

Candidate Details	Name:
Botano	Registration/Roll Number:
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):
	 Assessment Task 1:Prepare for work to maintain tools / equipment and machinery Assessment Task 2:Maintain Tools and equipment
Guidance for	3. Assessment Task 3:Perform Preventive maintenance of tools and equipment Output Output Description: Out
	Assessment Task 4: Perform Corrective maintenance of tools and equipment
Candidate	 Assessment Task 5: Ensure Electrical/Thermal Insulation of tools and equipment
	 6. Assessment Task 6: Calibrate measuring instruments 7. Assessment Task 7: Maintain Winding Machines 8. Assessment Task 8:Manage Inventory of tools/equipment and Machinery
	And complete:
	 Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1
	Performance criteria1:Prepare list of the PPE'S required for winding technician Performance criteria2:Identify the required PPE'S
Minimum	Performance criteria3:Collect the required PPE'S Performance criteria4:Ensureworking / functional condition of PPE'S Performance criteria5: Prepare list of the tools / equipment required for winding technician
Evidence Required	Performance criteria:Identify the tools/equipment required for winding technician Performance criteria7:Collect the tools/equipment required for winding technician
	Assessment Task 2
	Performance criteria1: Display list of the tools / equipment required for winding technician
	Performance criteria2: Match the available tools / equipment with the displayed list Performance criteria3:Prepare list of missing tools and equipment Performance criteria4: Arrange the missing tools and equipment

Assessment Task 3

Performance criteria1: Check physical condition of tools and equipment

Performance criteria2: Perform cleaning of tools and equipment Performance criteria3: Perform lubrication of tools and equipment Performance criteria4: Ensure proper storage of tools and equipment

Assessment Task 4

Performance criteria1: Check working/functional condition of tools and equipment Performance criteria2: Perform Corrective maintenance of tools and equipment regarding:

- Sharpening
- Adjustment
- Balancing
- Tightness
- Jamming
- Breakage
- Calibration

Assessment Task 5

Performance criteria1: Check Electrical Insulation of tools and equipment Performance criteria2: Maintain electrical insulation of tools and equipment Performance criteria3: Check Thermal Insulation of tools and equipment Performance criteria4: Maintain Thermal insulation of tools and equipment Performance criteria5: Ensure proper storage of tools and equipment

Assessment Task 6

Performance criteria1: Check calibration of measuring instruments Performance criteria2: Set calibration of measuring instruments

Performance criteria3:Compare calibration with the standard/Pre-calibrated instrument

Assessment Task 7

Performance criteria1: Check physical condition of winding machines

Performance criteria2: Perform cleaning of winding machines Performance criteria3: Perform lubrication of winding machines

Performance criteria4: Check calibration of turns counter of winding machines Performance criteria5: Set calibration of turns counter of winding machines

Performance criteria6: Replace turns counter of winding machines

Performance criteria7: Ensure safe covering/storing of winding machines

Assessment Task 8

Performance criteria1: Collect relevant inventory forms/stock register

Performance criteria2: Record receiving of tools, equipment and machinery in inventory forms/stock register

Performance criteria3: Maintain record of tools and equipment in stock register

Portfolios required at the time of assessment (if any) like trainees assignment, Project job etc:

Performance criteria 1 for the evaluation of portfolio

Performance criteria 2 for the evaluation of portfolio

Performance criteria 3 for the evaluation of portfolio

.....

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name:								
	COMPETENT	COMPETENT□ NOT YET COMPETENT□						г□	
Assessment Outcome	Signature of the	Name of the Assessor: Assessor's code: Signature of the Assessor:							
A - 4*-	Assessm	ent Su				y the a	assess		14
Activ	/ity			Method	1			Res	
Nature of Activity		Written	Oral	Observation	Portfolio	Role Play		Competent	Not Yet Competent
Practical Skill Der	monstration			✓		✓			
Knowledge Asses	ssment	✓	✓						
Other Requireme	nt				✓				
					I.				
Each Assessmen	nt Task (with perfo	ormanc	e criter	ia)					
Assessment Tas	Assessment Task 1 :Prepare for work to maintain tools / equipment and machinery								
During the practic following:	cal assessment, o	candida	te dem	onstrat	ed the	Yes	No	Remarks	
	ance criteria1:Pre	-	t of the	PPE'S					
	required for winding technician Performance criteria2:Identify the required PPE'S			.'S			1		
	ance criteria3:Collect the required PPE'S								
, Performa	nance criteria4:Ensureworking / functional								
	Performance criteria5: Prepare list of the tools / equipment required for winding technician								
	ormance criteria6:Identify the tools/equipment red for winding technician								
₇ Performa	nance criteria7:Collect the tools/equipment d for winding technician								
Competent □									

Assess equipm	essment Task 2: Maintain Tools and Description of a coment			ment ta	ask 2
During the practical assessment, candidate demonstrated the following:				No	Remarks
1	Performance criteria1: Display list of the tools / equipment required for winding technician				
2	Performance criteria2: Match the avail equipment with the displayed list				
3	Performance criteria3:Prepare list of mand equipment	nissing tools			
4	Performance criteria4: Arrange the mis equipment	ssing tools and			
Compe	etent 🗆	Not Yet Compe	tent 🗆		
		T			
	ment Task 3: Perform Preventive nance of tools and equipment	Description of	assessi	ment ta	ask 3
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria1: Check physical condition of tools and equipment				
2	Performance criteria? Perform cleaning of tools and				
3	Performance criteria3: Perform lubrication of tools				
4	Performance criteria4: Ensure proper and equipment	storage of tools			
Compe	etent 🗆	Not Yet Compe	tent 🗆	l	
	ment Task 4: Perform Corrective nance of tools and equipment	Description of	assessi	ment ta	ask 4
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria1: Check working/condition of tools and equipment	functional			
Performance criteria2: Perform Corrective maintenance of tools and equipment regarding:					
2	SharpeningAdjustment				
_	BalancingTightness				
	JammingBreakage				
	Calibration				
Competent Not Yet Competent		tent 🗆			

Assessment Task 5: Ensure Electrical/Thermal Insulation of tools and equipment Description of a			assessi	ment ta	isk 5
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria1: Check Electrica tools and equipment	al Insulation of			
2	Performance criteria2: Maintain electri of tools and equipment	cal insulation			
3	Performance criteria3: Check Thermal tools and equipment	Insulation of			
4	Performance criteria4: Maintain Therm tools and equipment	nal insulation of			
5	Performance criteria5: Ensure proper and equipment	storage of tools			
Compe	etent	Not Yet Compe	tent 🗆		
Assessment Task 6: Calibrate measuring instruments		Description of	assessı	ment ta	ask 6
	During the practical assessment, candidate demonstrated the following:			No	Remarks
1	Performance criteria1: Check calibration of measuring instruments				
2	Performance criteria2: Set calibration of measuring instruments				
3	Parformance criteria 3. Compare calibration with the				
Compe	etent	Not Yet Compe	tent 🗆		
Assess Machin	sment Task 7: Maintain Winding nes	Description of	assess	ment ta	ask 7
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria1: Check physical winding machines	condition of			
2	Performance criteria2: Perform cleanir machines	ng of winding			
3	Performance criteria3: Perform lubrication of winding machines				
4	Performance criteria4: Check calibration of turns counter of winding machines				
5	Performance criteria5: Set calibration of turns				
6	Performance criteria6: Replace turns counter of				
7	Performance criteria7: Ensure safe co of winding machines	vering/storing			
Competent ☐ Not Yet Compet		etent 🗆			

Assessment Task8: Manage Inventory of tools/equipment and Machinery				ment ta	sk8	
During followin	the practical assessment, candidate der	monstrated the	Yes	No	Remarks	
1	Performance criteria1: Collect relevant forms/stock register	inventory				
Performance criteria2: Record receiving of tools, equipment and machinery in inventory forms/stock register						
3	Performance criteria3: Maintain record of tools and equipment in stock register					
Compe	etent	Not Yet Compe	tent 🗆			
Portfoli	io(if any)	Description of p	portfolic)		
Curren	t□ Sufficient□ Authentio	c□ Valid		□ Reliable □		
Portfoli	io meet the following performance stand	ards:	Yes	No	Remarks	
1	Performance criteria 1					
2	Performance criteria 2					
3	Performance criteria 3					
4						
Competent ☐ Not Yet Compe			etent \square]		

Knowledge Assessment TITLE OF QUALIFICATION

training pro	ssessment relates to the nme: Winding Technician	CS Code	: Leve	el: 2	Version:	
Module Title Maintain Too	-	uipments and Machinery	Assessm	nent Date (I	OD/MM/YY)) :
Guidance for Candidate		complete your assessment fo questions on the following pa			ule, you ne	ed to answer
Assessors G candidate afte		(to be completed by the Assesse assessment)	or and signed	d both by th	e assessor	and the
Candidate Details		Name:				
Written Assessment Outcome		COMPETENT Name of the Assessor: Signature of the Assessor:		Assessor		
programme	:	ssessment relates to the traini Winding Technician	ng	CS Code:	Level: 2	Version:
Module Title: Maintain Tools Equipments and Machinery				Assessm	│ ent Date (D	DD/MM/YY):

Question	Candidate's answer
29. What steps you will take to maintain tools & equipment?	Following stepsare essential to maintain tools & equipment: Clean your tools / equipment's. Protect electrical cords. Lubricate tools/ equipment's. Inspect tools / equipment'sregularly. Store tools / equipment'swith care.
30. What is difference between repair & maintenance?	 The difference between repair and maintenance is: Repairs are services that are needed when a part is not working correctly. Either the part has malfunctioned or it has become worn to the point where the part needs to be replaced in order to maintain the performance of your machinery. Maintenance is services required to ensure your tools, equipment &machinery longevity. These services include oiling, cleaning, lubricating of your tools, equipment and machinery.
31. Enlist names of types of maintenance?	Four general types of maintenance are corrective, preventive, risk-based and condition-based maintenance.
32. What is meant by corrective maintenance?	Corrective maintenance can be defined as amaintenance task performed to identify, isolate, and rectify a fault so that the failed equipment, machine, or asset can be restored to an operational condition within the tolerances or limits established for in-service operations.
33. What is preventive maintenance?	Preventive maintenance is a maintenance that is regularly performed on a tools, equipment and machinery to lessen the likelihood of it failing. It is performed while the tool, equipment and machinery is still working so that it does not break down unexpectedly.
34. What is difference between corrective and preventive maintenance?	 Corrective maintenance is done after problem while preventive is before problem. Corrective maintenance is done randomly while preventive is done frequently. Corrective maintenance is to repair unscheduled breakdown of equipment whilepreventive maintenance is to perform scheduled maintenance of equipment.
35. What is thermal insulation?	Thermal insulation is the reduction of heat transfer between objects in thermal contact or in range of radiated influence. Thermal insulation can be achieved with specially engineered methods or processes, as well as with suitable object shapes and materials. Heat flow is an inevitable consequence of contact between objects of different temperature. Thermal insulation provides a region of insulation in which thermal conduction is reduced or thermal radiation is reflected rather than absorbed by the lower-temperature body.
36. How insulating capability of a material is measured?	The insulating capability of a material is measured as the inverse of thermal conductivity (k). Low thermal conductivity is equivalent to high insulating capability (Resistance value).

Question	Candidate's answer			
37. What is meant by calibration?	Calibration is a comparison between a knownmeasurement (the standard) and the measurementusing your instrument. Typically, the accuracy of the standard should be ten times the accuracy of themeasuring device being tested. For the calibration of the scale, a calibrated slip gauge is used.			
38. What is coil winding machine?	Electrical coil winding machines include motor coil, transformer coil, inductor coil, and choke coil winding machines. Motor coil winding machines are used to wind bothsingle-phase and three-phase motor coil. They are designed for use with concentric or equal-size motor winding arbors.			
39. What are types of inventory of repair shop?	Types of Inventory of a repair shop are: Faulty machines Raw materials/ spare parts Work-in-progress Repaired machines			

This formative assessment relates to the training programme: Electrical Machine Winding Technician	CS Code: 0713001126	Level: 2	Version:
Module Title:	Assessment D	Date (DD/MM/YY	') :
Perform on site inspection / testing of machine			

Candidate Details	Name:				
	Registration/Roll Number:				
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):				
Guidance for Candidate	 Assessment Task 1:Take feedback from the operator Assessment Task 2:Check Physical status/condition of Machine Assessment Task 3:Check data plate of machine for specifications Assessment Task 4: Conduct Megger test of the Machine Assessment Task 5: Carry out Transformer's oil test Assessment Task 6: Perform Total Turn Ratio Test of Transformer Assessment Task 7: Check Terminals/Terminal plate of Machine 				
	And complete:				
	11. Knowledge assessment test (Written or Oral) 12. Portfolios at the time of assessment (if any)				
	During a practical assessment, under observation by an assessor, you will complete:				
	Assessment Task 1				
	Performance Criteria 1: Perform site visit.				
	Performance Criteria 2: Collect information from the machine operator regarding the fault.				
	Performance Criteria 3: Record the data.				
	Assessment Task 2				
Minimum	Performance Criteria 1: Perform physical checking of machine by:				
Evidence Required	SeeingTouchingSmelling				
	Performance Criteria 2: Check for loose fitting				
	Performance Criteria 3: Check for open / loose / burnt connections				
	Performance Criteria 4: Check for true connections as per circuit diagram				
	Assessment Task 3				
	Performance Criteria 1: Locate the Data/Name Plate of Machine				
	Performance Criteria 2: Read data of Machine				
	Performance Criteria 3: Record data of Machine				

Performance Criteria 1: Identify the required tools and equipment for conduct of Megger Test

Performance Criteria 2: Collect the required tools and equipment

Performance Criteria 3: Disconnect the Supply Cables

Performance Criteria 4: Perform testing with Megger

Ground/Earth Fault

Short Circuit

o Open Circuit

Performance Criteria 5: Record test result

Assessment Task 5

Performance Criteria 1: Identify the required tools and equipment

Performance Criteria 2: Collect the required tools and equipment

Performance Criteria 3: Disconnect the Supply Cables

Performance Criteria 4: Take Oil Sample for test

Performance Criteria 5: Perform oil testing

- o High Voltage/Breakdown Test
- Moisture Test
- o Flash Point Test

Performance Criteria 6: Record test results

Assessment Task 6

Performance Criteria 1: Identify the required tools and equipment

Performance Criteria 2: Collect the required tools

Performance Criteria 3: Disconnect the Supply Cables

Performance Criteria 4: Perform TTR Test

Performance Criteria 5: Compare TTR test result with the specifications as per Data Plate

Performance Criteria 6: Record test results

Assessment Task 7

Performance Criteria 1: Inspect the Terminal Plate of Machine

Performance Criteria 2: Check the physical condition of nut bolts

Performance Criteria 3: Check space/gap between the terminals

Performance Criteria 4: Check the condition of linking strips for connection

Performance Criteria 5: Check the space condition for rusting/carbonizing between terminals

Portfolios required at the time of assessment (if any) like trainees assignment,projects/Jobs etc.

Performance criteria 1 for the evaluation of portfolio

Performance criteria 2 for the evaluation of portfolio

Performance criteria 3 for the evaluation of portfolio

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Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

(Formative Assessment)

Candidate Details	Name:								
Assessment Outcome	COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code: Signature of the Assessor:								
Assessment Summary (to be filled by the assessor)									
Activ		ent Su	ımmar	y (to be Method		by the a	assess		sult
Nature of Activity		Written	Oral	Observation	Portfolio	Role Play		Competent	Not Yet Competent
Practical Skill Der	monstration			✓		✓			
Knowledge Asses	ssment	✓	✓						
Other Requirement	nt				✓				
Each Assessment Task (with performance criteria) Assessment Task 1 :Take feedback from the operator Description of assessment task 1									
During the practical assessment, candidate demonstrated the following:									
1 Performa	ance criteria 1: Pe	erform :	site vis	sit					

Not Yet Competent \square

Performance criteria 2: Collect information from the

machine operator regarding the fault

Performance criteria 3: Record the data

3

Competent □

Assessment Task 2: Check Physical status/condition of Machine Description of a			assessı	ment ta	sk 2	
During followin	the practical assessment, candidate deng:	monstrated the	Yes	No	Remarks	
1	Performance criteria 1: Perform physical checking of machine by: o Seeing o Touching o Smelling					
2	Performance criteria 2: Check for loose	e fitting				
3	Performance criteria 3: Check for open / loose / burnt connections					
4	Performance criteria 4: Check for true connections as per circuit diagram					
Compe	etent	Not Yet Compe	Not Yet Competent □			
_						
Assessment Task 3: Check data plate of machine for specifications		Description of	assessi	ment ta	sk 3	
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Locate the Data/Name Plate of Machine					
2	Performance criteria 2: Read data of N	/lachine				
3	Performance criteria 3: Record data of	Machine				
Compe	etent	Not Yet Compe	tent 🗆			

Assessment Task 4: Conduct Megger test of the Machine Description of assessment task 4					sk 4
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria 1: Identify the required tools and equipment for conduct of Megger Test				
2	Performance criteria 2: Collect the required tools and equipment				
3	Performance criteria 3: Disconnect the Supply Cables				
4	Performance criteria 4: Perform testing with Megger > Ground/Earth Fault > Short Circuit > Open Circuit				
5	Performance criteria 5: : Record test result				
Competent ☐ Not Ye		Not Yet Compe	tent 🗆		

Assessment Task 5: Carry out Transformer's Description of oil test			assess	ment ta	sk 5
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1: Identify the required tools and equipment				
2	Performance criteria 2: Collect the required tools and equipment				
3	Performance criteria 3: Disconnect the Supply Cables				
4	Performance criteria 4:Take Oil Sample for test				
5	Performance criteria 5:Perform oil testing > High Voltage/Breakdown Test > Moisture Test > Flash Point Test				
6	Record test results				
Compe	etent 🗆	Not Yet Compe	tent 🗆		

Assessment Task 6: Perform Total Turn Ratio Test of Transformer Description of			assessi	ment ta	sk 6
During followin	the practical assessment, candidate der	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Identify the req equipment	uired tools and			
2	Performance criteria 2: Collect the requ	uired tools			
3	Performance criteria 3: Disconnect the Cables	Supply			
4	Performance criteria 4:Perform TTR To	est			
5	Performance criteria 5: Compare TTR the specifications as per Data Pla	ate			
6	Performance criteria 6: Record test res	sult			
Compe	etent	Not Yet Compe	tent 🗆		
	ement Task 7: Perform Total Turn Test of Transformer	Description of	assess	ment ta	sk 7
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria 1: Inspect the Terminal Plate of Machine				
2	Performance criteria 2: Check the physical condition of nut bolts				
3	Performance criteria 3: Check space/gap between the terminals				
4	Performance criteria 4:Check the con- strips for connection				
5	Performance criteria 5:Check the space rusting/carbonizing between term				
Compe		Not Yet Competent □			
Portfolio(if any)		Description of portfolio)	
Curren	t□ Sufficient□ Authentio	c□ Valid			Reliable 🛘
Portfoli	o meet the following performance stand	ards:	Yes	No	Remarks
1					
2	Performance criteria 2				
3	Performance criteria 3				
4					
Compe	etent \square	Not Yet Compe	etent \Box	1	

Knowledge Assessment TITLE OF QUALIFICATION

This formative assessment relates to the training programme:		CS Code:	Level: 2	Version:			
Electrical Ma	chine Winding Technician						
Module Title) :	Assessme	ent Date (Di	D/MM/YY):			
Perform on site inspection / testing of machine							
Guidance for Candidate To complete your assessment for this Curriculum Module, you need to answer the questions on the following pages successfully.							
	uide (to be completed by the Assessor and signer the assessment)	ned both by the	e assessor a	and the			
Candidate Details	Name:	Registratio	on/Roll Num	ber:			
		CS Code:	Level: 2	Version:			
Assessment Outcome	ent Date (DI	D/MM/YY):					

Question	Candidate's answer
40. How physical status/condition of Electrical Machine can be checked?	Following measures are taken to check Physical conditions of Electrical Machine: Seeing Touching Smelling
41. What does Data Plate of Machine shows?	Data Plate of Machine shows the rating and specifications of Machine.
42. Why Megger test is performed?	Megger Test is performed to check the following: 1. Open Circuit 2. Short Circuit 3. Insulation Condition 4. Earth Fault/Leakage
43. Why Transformer Oil Test is performed?	Transformer Oil Test is used to check the strength of Di-Electric Constant.
44. What does TTR stands for?	TTR stands for Total Turn Ratio of Transformer.
45. Why Terminal Plates of Electrical Machine are checked?	Terminal Plate of Machine are checked for Proper connection, carbonizing, burn out and loose connection.

This formative assessment relates to the training programme: Electrical Machine Winding Technician	CS Code: 0713001127	Level: 2	Version:
Module Title: Carry out Mechanical De-Installation of Machine	Assessment D	Date (DD/MM/YY):

Candidate Details	Name:					
	Registration/Roll Number:					
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):					
	16. Assessment Task 1:Prepare for work to Carry out Mechanical De- Installation of Machine					
	17. Assessment Task 2:Isolate Machine from Pneumatic/hydraulic Supply					
Guidance	18. Assessment Task 3:Isolate Machine from Fuel Supply					
for	19. Assessment Task 4: Isolate Machine from Gear Box					
Candidate	20. Assessment Task 5: Isolate Machine from Pulley					
	21. Assessment Task 6: Perform De-Coupling of Machine					
	22. Assessment Task 7: De- Install Machine from Foundation					
	And complete:					
	13. Knowledge assessment test (Written or Oral)14. Portfolios at the time of assessment (if any)					
	During a practical assessment, under observation by an assessor, you will complete:					
	Assessment Task 1					
	Performance Criteria 1: Identify the required PPE's Performance Criteria 2: Collect the required PPE'sPerformance Criteria 3: Record the data					
Minimum	Performance Criteria 3: Identify the required tools and equipment					
Evidence	Performance Criteria 4: Collect the required tools and equipment					
Required	Performance Criteria 5: Ensure functional condition of PPE's/Tools and equipment					
	Performance Criteria 6: Ensure safe working conditions Clear Passage Cleanliness Adequate light Ventilation					

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and equipment

Performance Criteria 3: Locate the main valve of Pneumatic/hydraulic supply to the machine

Performance Criteria 4: Shut off the main valve of Pneumatic/hydraulic supply to the machine

Performance Criteria 5: Identify parts to be isolated from pneumatic/hydraulic supply

Performance Criteria 6: Perform isolation of all the pneumatic/hydraulic supplies to the machine

Performance Criteria 7: Perform dead plugging of all the

pneumatic/hydraulic supplies

Performance Criteria 8: Maintain Record of pneumatic/hydraulic supplies isolation

Performance Criteria 9: Perform Tagging of the isolated pneumatic/hydraulic supplies

Assessment Task 3

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and equipment

Performance Criteria 3: Locate the main valve of fuel supply to the machine

Performance Criteria 4: shut off the main valve of fuel supply to the machine

Performance Criteria 5: Identify parts to be isolated from fuel supplies

Performance Criteria 6: Perform isolation of all the fuel supplies to the

machine

Performance Criteria 7: Perform dead plugging of all the fuel supplies

Performance Criteria 8: Maintain Record of fuel supplies isolation

Performance Criteria 9: Perform Tagging of the isolated fuel supplies

Assessment Task 4

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and equipment

Performance Criteria 3: Locate the gear box of the machine

Performance Criteria 4: Perform marking on driver, driven and foundation for proper alignment and placement of parts

Performance Criteria 5: Perform isolation of Gear Box

Performance Criteria 6: Record isolation of Gear Box

Performance Criteria 7: Perform Tagging on Gear Box and driven end

Assessment Task 5

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and equipment

Performance Criteria 3: Locate the pulley of the machine

Performance Criteria 4: Perform isolation of pulley

Performance Criteria 5: Record isolation of pulley

Performance Criteria 6: Perform Tagging on pulley and its allied parts

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and equipment

Performance Criteria 3: Locate the parts of the machine to be De-coupled

Performance Criteria 4: Perform marking on parts to be De-coupled for realignment/readjustment

Performance Criteria 5: Perform De-coupling of the machine

Performance Criteria 6: Record De-coupling of the machine

Performance Criteria 7: Perform Tagging on De-coupled parts of the machine

Assessment Task 7

Performance Criteria 1: Wear the required PPE's

Performance Criteria 2: Identify the required tools and

equipmentPerformance Criteria 3: Identify machine to be de-installed from foundation

Performance Criteria 4: Perform de-installation of machine from foundation

Performance Criteria 5: Record de-installation of machine

Performance Criteria 6: Perform tagging on the de-installed machine

Portfolios required at the time of assessment (if any) like trainees assignment, Projects/Jobs etc:

Performance criteria 1 for the evaluation of portfolio

Performance criteria 2 for the evaluation of portfolio

Performance criteria 3 for the evaluation of portfolio

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Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	•
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	

Assessment Summary (to be filled by the assessor)								
Activity		Method				Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓		✓			
Knowledge Assessment	✓	✓						
Other Requirement				✓				

Each Assessment Task (with performance criteria)					
	sessment Task 1 :Prepare for work to Pescription of rry out Mechanical De-Installation of achine			ment ta	sk 1
During followir	the practical assessment, candidate del	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Identify the req	uired PPE's			
2	Performance criteria 2: Collect the req	uired PPE's			
3	Performance criteria 3: Identify the req equipment				
4	Performance criteria 4: Collect the required tools and equipment				
5	Performance criteria 5: Ensure functional condition of PPE's/Tools and equipment				
6	Performance criteria 6: Ensure conditions	safe working			
Compe	etent 🗆	Not Yet Compe	tent 🗖		

	ment Task 2: Isolate Machine from atic/hydraulic Supply	Description of	assess	ment ta	sk 2
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Wear the requi	ired PPE's			
2	Performance criteria 2: Identify the reception equipment	quired tools and			
3	Performance criteria 3: Locate the main Pneumatic/hydraulic supply to the made				
4	Performance criteria 4: Close the mair Pneumatic/hydraulic supply to the made				
5	Performance criteria 5: Identify parts to be isolated from pneumatic/hydraulicsupply				
6	Performance criteria 6: Perform isolati pneumatic/hydraulic supplies to the materials of the materials and the supplies to the materials of the materials of the supplies to the materials of the supplies to the materials of the supplies of				
7	Performance criteria 7: Perform dead plugging of all the pneumatic/hydraulic supplies				
8	Performance criteria 8: Maintain Record ofpneumatic/hydraulic supplies isolation				
9	Performance criteria 9: Perform Tagging of the isolated pneumatic/hydraulic supplies				
Competent ☐ Not Yet Compe		tent 🗆			

Assess Fuel Su	ment Task 3: Isolate Machine from upply	Description of a	assessi	ment ta	sk 3
During followin	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Wear the requi	red PPE's			
2	Performance criteria 2: Identify the requipment	uired tools and			
3	Performance criteria 3: Locate the main valve of fuel supply to the machine				
4	Performance criteria 4: Shut off the ma supply to the machine	ain valve of fuel			
5	Performance criteria 5: Identify parts to be isolated from fuel supplies				
6	Performance criteria 6: Perform isolation supplies to the machine	on of all the fuel			
7	Performance criteria 7: Perform dead the fuel supplies	olugging of all			
8	Performance criteria 8: Maintain Record of fuel supplies isolation				
9	Performance criteria 9: Perform Tagging of the isolated fuel supplies				
Competent ☐ Not Yet Compe		tent 🛘			

Assess Gear B	ment Task 4: Isolate Machine from ox	Description of	assessment task 4		
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Wear the requi	ired PPE's			
2	Performance criteria 2: Identify the required tools and equipment				
3	Performance criteria 3: Locate the geamachine				
4	Performance criteria 4:Perform marking on driver, driven and foundation for proper alignment and placement of parts				
5	Performance criteria 5:Perform isolation ofGear Box				
6	Performance criteria 6:Record isolation ofGear Box				
7	Performance criteria 7:Perform Tagging on Gear Box and driven end				
Competent ☐ Not Yet Compe		tent 🗆			

Assessment Task 5: Isolate Machine from Description of a Pulley		assessi	ment ta	sk 5	
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria 1: Wear the required PPE's				
2	Performance criteria 2: Identify the required tools and equipment				
3	Performance criteria 3: Locate the pulley of the machine				
4	Performance criteria 4:Perform isolation of pulley				
5	Performance criteria 5:Record isolation of pulley				
6	Performance criteria 6:Perform Tagging on pulley and its allied parts				
Competent ☐ Not Yet Compe		tent 🗆			

Assess Machin	sment Task 6: Perform De-Coupling of ne	Description of	assess	assessment task 6		
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks	
1	Performance criteria 1: Wear the requi	ired PPE's				
2	Performance criteria 2: Identify the required tools and equipment					
3	Performance criteria 3: Locate the parts of the machine to be De-coupled					
4	Performance criteria 4:Perform marking on parts to be De-coupled for realignment/readjustment					
5	Performance criteria 5:Perform De-coupling of the Machine					
6	Performance criteria 6:Record De-coupling of the Machine					
7	Performance criteria 7:Perform Tagging on Decoupled parts of the machine					
Competent ☐ Not Yet Compe		tent 🗆				

	Assessment Task 7: De- Install Machine from Description of a Foundation			ment ta	sk 7
During followin	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Wear the requi	red PPE's			
2	Performance criteria 2: Identify the rec Equipment	uired tools and			
3	Performance criteria 3: Identify machin installed from foundation				
4	Performance criteria 4:Perform de-inst machine from foundation				
5	Performance criteria 5:Record de-insta Machine	allation of			
6	Performance criteria 6:Perform tagging onthe de- installed machine				
Competent ☐ Not Yet Compe			etent		
Portfoli	o(if any)	Description of p	portfolic)	
Current	t□ Sufficient□ Authenti	c□ Valid			Reliable 🗆
Portfoli	o meet the following performance stand	ards:	Yes	No	Remarks
1	Performance criteria 1				
2	Performance criteria 2				
3	Performance criteria 3				
4					
Competent ☐ Not Yet Compe			etent 🗆		

Knowledge Assessment TITLE OF QUALIFICATION

This formati training prog Electrical Ma	CS Code:	Leve	1: 2	Version:				
Module Title Carry out Me	: chanical De-Installation of Machine	Assessmen	Assessment Date (DD/MM/YY):					
Guidance for Candidate	To complete your assessment for the questions on the following p		culum Module, you need to answer essfully.					
	uide (to be completed by the Assess the assessment)	or and signed b	ooth by the	e assessor a	and the			
Candidate Details		Name:						
Written Assessment Outcome		NOT YET COMPETENT□Assessor's code:						
This formative assessment relates to the training programme: Electrical Machine Winding Technician			CS Code:	Level: 2	Version:			
Module Title: Carry out Mechanical De-Installation of Machine			Assessment Date (DD/MM/YY):					

Question	Candidate's answer
46. What is meant by pneumatic supply?	Some electrical machines are connected with air compressor; supply of air means pneumatic supply.
47. What is meant by fuel supply?	Some electrical machines are connected with petrol, diesel, gas lines;a line of these fuels is called fuel supply.
48. Why gear boxes are used?	Gear boxes are used to transmit heavy mechanical power from electrical motor (Driver) to driven at other speed / torque.
49. Why Pulley is used?	Pulley is used to transmit light mechanical power from electrical motor (Driver) to driven at other speed / torque.
50. Why coupling is used?	Coupling is used to transmit mechanical power of electric motor (Driver) to driven at same speed / torque.
51. Why you de-install Electrical Machine from foundation?	Electrical machines are de-installed from foundation to shift them from site to workshop for repair work.
52. What do you mean by safe working condition?	Safe working condition means that: 1- Passage of working area must be clear and have no hurdle in movement of workers/ machinery 2- Floor of working area must be clean and has no dust, oils, grease spread over the surface 3- Working area must have adequate light required for type of work performing there. 4- Working area must have ventilation to avoid suffocation.

This formative assessment relates to the training programme: Electrical Machine Winding Technician	CS Code: 0713001128	Level: 2	Version:
Module Title: Ensure Electrical Isolation of Machine	Assessment D	Oate (DD/MM/YY):

Candidate Details	Name:						
	Registration/Roll Number:						
	To meet the required standard of assessment, you have to complete the following assessment tasks within the given time frame (for practical demonstration & assessment):						
	23. Assessment Task 1:Prepare for Work to Ensure Electrical Isolation of Machine						
	24. Assessment Task 2:Wear PPE's						
Guidance	25. Assessment Task 3:Isolate Machine from Electrical Supply26. Assessment Task 4: Perform Tagging of Machine						
for	27. Assessment Task 4. Perform Tagging of Machine 27. Assessment Task 5: Document the Electrical Isolation of Machine						
Candidate	28. Assessment Task 6: Communicate with machine operator and other personnel						
	29. Assessment Task 7: De-Energize Machine						
	And complete:						
	15. Knowledge assessment test (Written or Oral)16. Portfolios at the time of assessment (if any)						
	During a practical assessment, under observation by an assessor, you will complete:						
	Assessment Task 1						
	Performance Criteria 1: Identify the required PPE's						
	Performance Criteria 2: Collect the required PPE's						
	Performance Criteria 3: Identify the required tools and equipment						
Minimum	Performance Criteria 4: Collect the required tools and equipment						
Evidence Required	Performance Criteria 5: Ensure functional condition of PPE's/Tools and equipment						
	Performance Criteria 6: Prepare the required tags for isolation						
	Assessment Task 2						
	Performance Criteria 1:Wear PPE's as per job requirement						
	Performance Criteria 2:Clean the PPE's after use						
	Performance Criteria 3:Perform proper storing of the PPE's after cleaning						

Performance Criteria 1: Identify the machine for isolation

Performance Criteria 2: Collect the required tools for isolation

Performance Criteria 3: Identify the supply Sources/points to be isolated

Performance Criteria 4: Identify the supply disconnecting devices

Performance Criteria 5: Take on board the concerned department for

electrical isolation

Performance Criteria 6: Switch off the supply sources

Performance Criteria 7: Perform electrical isolation of Machine

Assessment Task 4

Performance Criteria 1: Collect required tagging

Performance Criteria 2: Perform tagging of faulty Machine

Assessment Task 5

Performance Criteria 1: Enlist the tagged Machines

Performance Criteria 2: Document nature of the faults

Performance Criteria 3: Record the electrical isolation of machine

Assessment Task 6

Performance Criteria 1: Identify nature of fault of machine

Performance Criteria 2: Diagnose the causes of fault

Performance Criteria 3: Communicate nature of fault of machine to operation department

Performance Criteria 4: Prepare memo/(MWR) Maintenance Work Request for maintenance of machines

Assessment Task 7

Performance Criteria 1: Identify the required tools and equipment for Deenergize the machine

Performance Criteria 2: Collect the required tools and equipment for Deenergize the machine

Performance Criteria 3: Identify the part of the machine to be De-energize Performance Criteria 4: Perform de-energizing of machine

Portfolios required at the time of assessment (if any) like trainees assignment, Project job etc:

Performance criteria 1 for the evaluation of portfolio

Performance criteria 2 for the evaluation of portfolio

Performance criteria 3 for the evaluation of portfolio

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

	(1.0	mati	TO A	33633	ilicitt)					
Candidate	Name:									
Details	Candidate Signature:									
	COMPETENT					YOT '	YET CO	OMPETENT	г□	
Assessment	Name of the As		:			. Asses	sor's c	ode:		
Outcome	Signature of the									
	Assessor:									
	Assessm	ent Su	mmar	y (to be	filled b	by the a	assess	or)		
Acti			T	Metho				Res	sult	
				Observation		_		int	int	
Nature of Activity	I	<u>_</u>		rvat	<u>.e</u>	Role Play		Competent	Not Yet Competent	
	,	Written	ल	se	Portfolio	<u> </u>		duo	ot Y	
		≶	Oral	ğ	Po	8		ပိ	N O	
Practical Skill De		✓	✓	✓		V				
Knowledge Asse Other Requireme		V	•		-					
Other Requirem	SHIL									
Each Assessme	ent Task (with perf	ormano	e crite	eria)						
Assessment Tas	sk 1 : Prepare for	Work to)	Descri	ption of	assess	ment ta	ask 1		
	l Isolation of Macl				l					
	ical assessment,	candida	ate der	monstra	ted the	Yes	No	Domorko		
following:						res	No	Remarks		
1 Perform	ance criteria 1: Id	entify tl	he req	uired PF	PE's					
	ance criteria 2: C									
3 Perform equipme	nance criteria 3: Id	entify tl	he req	uired to	ols and					
Perform	iance criteria 4: C	ollect th	ne real	uired too	ols and					
4 equipme	ent		·							
5	nance criteria 5: E ools and equipme		unctior	nal cond	ition of					
Perform	ance criteria 6: P		the red	quired ta	igs for					
6 isolation	1		Т							
Competent				Not Ye	Compe	etent \square				
_										
Assessment Tas	sk 2: Wear PPE's			Descri	otion of	assessi	ment ta	isk 2		
					1.41	1		1		
During the practical assessment, candidate demor following:			nonstra	ed the	Yes	No	Remarks			
1 Perform requiren	ormance Criteria 1:Wear PPE's as per job rement									
2 Perform	ance criteria 2: Cl	ean the	PPE'	s after u	ise					
	ance Criteria 3:Pe	erform p	oroper	storing	of the					
Competent □	y			Not Yet	Compe	tent \square	1	1		

	Assessment Task 3: Isolate Machine from Electrical Supply			ment ta	sk 3	
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks	
1	Performance criteria 1: Identify the isolation	e machine for				
2	Performance criteria 2: Collect the req isolation	uired tools for				
3	Performance criteria 3: Identify the sup Sources/points to be isolated	oply				
4	Performance criteria 4: Identify the sup disconnecting devices	oply				
5	Performance criteria 5: Take on board department for electrical isolation	the concerned				
6	Performance criteria 6: Switch off the	supply sources				
7	Performance criteria 7:perform electric machine					
Competent ☐ Not Yet Compe			tent 🗆	tent		
Assessment Task 4: Perform Tagging of Machine Description of a		assessi	ment ta	sk 4		
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks	
1	Performance criteria 1: Collect require	d tagging				
2	Performance criteria 2: Perform taggin Machine	g of faulty				
Compe	etent	Not Yet Compe	tent 🗆			
	ment Task 5: Document the cal Isolation of Machine	Description of	assessi	ment ta	sk 5	
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Enlist the tagge	ed Machines				
2	Performance criteria 2: Document natu	ure of the faults				
3	Performance criteria 3: Record the ele of machine	ectrical isolation				
Compe	etent 🗆	Not Yet Compe	tent 🗆			

	ment Task 6: Communicate with e operator and other personnel	Description of	assessı	ment ta	ask 6
During followin	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Identifynatu machine	re of fault of			
2	Performance criteria 2: Diagnose the o	causes of fault			
3	Performance criteria 3: Communicate of machine to operation department	nature of fault			
4	Performance criteria 4:Prepare Maintenance Work Request for machine	memo/(MWR) maintenance of			
Compe	etent 🗆	Not Yet Compe	tent 🗆		
Assess	sment Task 7: De-Energize Machine	Description of	assessi	ment ta	ask 7
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Identify the receptive equipment for De-energize the m				
2	Performance criteria 2: Collect the rec equipment for De-energize the m				
3	Performance criteria 3: Identify the parmachine to be De-energize	rt of the			
4	Performance criteria 4:Perform de machine	-energizing of			
Compe	etent 🗆	Not Yet Competent □			
Portfoli	o(if any)	Description of portfolio			
Curren	t□ Sufficient□ Authenti	c□ Valid			Reliable
Portfoli	o meet the following performance stand	ards:	Yes	No	Remarks
1	Performance criteria 1				
2	Performance criteria 2				
3	Performance criteria 3				
4					
Compe	tent 🗆	Not Yet Compe	etent 🗆		

Knowledge Assessment TITLE OF QUALIFICATION

training prog	ve assessment relates to the gramme: chine Winding Technician	CS Code:	Level: 2	2 Vei	rsion:		
Module Title Ensure Elect	: rical Isolation of Machine	Assessmen	Assessment Date (DD/MM/YY):				
Guidance for Candidate To complete your assessment for this Curriculum Module, you need to answer the questions on the following pages successfully.							
	uide (to be completed by the Assess r the assessment)	sor and signed bo	oth by the a	ssessor and	the		
Candidate Details	Name: Candidate Signature:						
Written Assessment Outcome COMPETENT Name of the Assessor: Signature of the Assessor:		А	ssessor's c				
programme:	ve assessment relates to the train chine Winding Technician	ning	CS Code:	Level: 2	Version:		
Module Title Ensure Elect	: rical Isolation of Machine		Assessme	nt Date (DD	/MM/YY):		

Question	Candidate's answer
53. What types of PPEs you need to isolate Electrical Machine from electrical supply?	Following PPEs are required to isolate Electrical Machine from electrical supply: Safety gloves Safety shoes Safety helmet Safety belt
54. What doyou do to ensure functional condition of PPEs?	I will physically check the PPEs to observe there: Insulation Hardness Breakage Date of expiry
55. What sequence you will adopt to wear PPEs?	The sequence of wearing is as follows: 5. Safety shoes 6. Safety belt 7. Safety helmet 8. Safety gloves
56. What types of tools you need to isolate Electrical Machine from electrical supply??	Following tools equipment are required to isolate Electrical machine from electrical supply: • Phase tester • Screw driver set • Combination plier • Clamp on meter • D Rod
57. Why you tag the machine after electrical isolation?	After electrical isolation, machines are tagged to avoid accidental operation.
58. Why documents regarding electrical isolation Electrical Machine are prepared?	Documents regarding electrical isolation indicate the condition of machine which helps the operator coming in next shift, it also prevent accidental operation.
59. Why we de-energize machine?	Some loads / machines are connected with capacitors and after isolation machine from electrical supply charged capacitors can caused electric shock, that's why we de-energize machine.

(Summative Assessment)

Instruction Sheet for the Candidate

Title of Qualification:	CS Code:	Level: 2	Version:
Electrical Machine Winding Technician			
Competency Standard Title:	Assessment	Date (DD/MM/YY) :
Maintain Tools / Equipment and Machinery			
Perform on-site Inspection/testing of machine			
Carry Out Mechanical De-Installation of Machine			
Ensure Electrical isolation of Machine			
Purpose of Assessment:	Summative A	ssessment	

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within the given time frame,4 hours (for practical demonstration & assessment):
Guidance for Candidate	Assessment Task: Perform Electrical Isolation and Mechanical de installation of Faulty Machine
	And complete:
	 Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)

	Performance Criteria 1. Identify the required tools, equipment & PPE's
	Performance Criteria 2. Check functional condition of the required
	PPE's/Tools, equipment.
	Performance Criteria 3. Use the required tools equipment and PPE's
	as per job demand
	Performance Criteria 4. Clean the PPE's after use Performance Criteria 5. Perform proper storing of the PPE's after use.
	Performance Criteria 6. Identify the machine for E/isolation and
	Mechanical de installation
	Performance Criteria 7. Read the data from Name plate of the
	Machine and record it.
	Performance Criteria 8. Take on board the concerned department for
	electrical isolation and Mechanical de installation
	Performance Criteria 9. Disconnect the Supply Cables
	Performance Criteria 10. Identify the supply Sources/points to be isolated
	Performance Criteria 11. Identify the supply disconnecting devices Performance Criteria 12. Switch off the supply sources
	Performance Criteria 12. Switch off the supply sources Performance Criteria 13. Perform electrical isolation
	Performance Criteria 14. Locate the main valve of Pneumatic / hydraulic
	supply to the machine
	Performance Criteria 15. Shut-off the main valve of Pneumatic / hydraulic
	supply to the machine
	Performance Criteria 16. Identify parts to be isolated from
	pneumatic/hydraulic supply Performance Criteria 17. Perform isolation of all the pneumatic/hydraulic
	supplies to the machine
	Performance Criteria 18. Perform dead plugging of all the
	pneumatic/hydraulic supplies
Minimum	Performance Criteria 19. Maintain Record of pneumatic/hydraulic supplies
Evidence	isolation
Required	Performance Criteria 20. Perform Tagging of the isolated pneumatic/hydraulic supplies
	Performance Criteria 21. Locate the main valve of fuel supply to the
	machine and close it.
	Performance Criteria 22. Identify parts to be isolated from fuel
	supplies
	Performance Criteria 23. Perform isolation of all the fuel supplies to the
	machine Performance Criteria 24. Perform dead plugging of all the fuel supplies
	Performance Criteria 25. Maintain Record of fuel supplies isolation
	Performance Criteria 26. Perform Tagging of the isolated fuel supplies
	Performance Criteria 27. Locate the gear box of the machine
	Performance Criteria 28. Perform marking on driver, driven and
	foundation for proper alignment and placement of parts
	Performance Criteria 29. Perform isolation of Gear Box Performance Criteria 30. Record isolation of Gear Box
	Performance Criteria 31. Perform Tagging on Gear Box and driven end
	Performance Criteria 32. Locate pulley of the machine and isolate it
	Performance Criteria 33. Record isolation of pulley
	Performance Criteria 34. Perform Tagging on pulley and its allied parts
	Performance Criteria 35. Locate the parts of the machine to be De-
	coupled Performance Criteria 36. Perform marking on parts to be De-coupled for
	Performance Criteria 36. Perform marking on parts to be De-coupled for realignment/readjustment
	Performance Criteria 37. Perform De-coupling of the machine
	Performance Criteria 38. Record De-coupling of the machine
	Performance Criteria 39. Perform Tagging on De-coupled parts of the
	machine
	Performance Criteria 40. Perform de-installation of machine from foundation
	iouridation
	Performance Criteria 41. Record de-installation of machine

Performance Criteria 42. Perform de-energizing of machine									
		olios required cts/Jobs etc.	at the	time (of asses	ssment	t (if any) like trainees /st	udents
	•	Performance	e criteri	ia 1 fo	r the eva	aluation	of port	folio	
		Performance							
		Performance	e criteri	ia 3 fo	r the eva	aluation	of port	folio	
Assessors Jud				leted b	by the As	ssessor	· and sig	Continued on fo	• • •
Candidate Details Name:									
	C	COMPETENT□ NOT YET COMPETENT□							
Assessment Outcome	s	Name of the Assessor: Assessor's code: Signature of the Assessor:							
		Assessme	ont Su	mmar	v (to be	filled h	ov the s	ecoccor)	
	ctivity		ent Su	IIIIIai	Method		Jy III e a		sult
		'				<u> </u>			
Nature of Activity		Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration		nstration			✓		✓		
Knowledge Assessment		✓	✓						
Other Requirement					✓				
		•							
Each Assessm	nent T	ask (with perfo	ormanc	e crite	ria)				
Assessment Task: Perform Electrical Isolation and Mechanical de installation of Faulty Machine.				Descrip	otion of	assess	ment task		

During followin	the practical assessment, candidate demonstrated the g:	Yes	No	Remarks
1.	Identify the required tools , equipment & PPE's			
2.	Check functional condition of the required PPE's/Tools, equipment.			
3.	Use the required tools equipment and PPE's as per job demand			
4.	Clean the PPE's after use			
5.	Perform proper storing of the PPE's after use.			
6.	Identify the machine for E/isolation and Mechanical de installation			
7.	Read the data from Name plate of the Machine and record it.			
8.	Take on board the concerned department for electrical isolation and Mechanical de installation			
9.	Disconnect the Supply Cables			
10.	Identify the supply Sources/points to be isolated			
11.	Identify the supply disconnecting devices			
12.	Switch off the supply sources			
13.	Peroform electrical isolation			
14.	Locate the main valve of Pneumatic / hydraulic supply to the machine			
15.	Shut-off the main valve of Pneumatic / hydraulic supply to the machine			
16.	Identify parts to be isolated from pneumatic/hydraulic supply			
17.	Perform isolation of all the pneumatic/hydraulic supplies to the machine			
18.	Perform dead plugging of all the pneumatic/hydraulic supplies			
19.	Maintain Record of pneumatic/hydraulic supplies isolation			
20.	Perform Tagging of the isolated pneumatic/hydraulic supplies			
21.	Locate the main valve of fuel supply to the machine and close it.			
22.	Identify parts to be isolated from fuel supplies			

23.	Perform isolation of all the fuel s machine	upplies to the			
24.	Perform dead plugging of all the fuel s				
25.	Maintain Record of fuel supplies isolat	ion			
26.	Perform Tagging of the isolated fuel si	upplies			
27.	Locate the gear box of the machine				
28.	Perform marking on driver, driven and proper alignment and placement of pa				
29.	Perform isolation of Gear Box				
30.	Record isolation of Gear Box				
31.	Perform Tagging on Gear Box and dri	ven end			
32.	Locate pulley of the machine and isola	ate it.			
33.	Record isolation of pulley				
34.	Perform Tagging on pulley and its alli	ed parts			
35.	Locate the parts of the machine to be	De-coupled			
36.	Perform marking on parts to be realignment/readjustment	De-coupled for			
37.	Perform De-coupling of the machine				
38.	Record De-coupling of the machine				
39.	Perform Tagging on De-coupled parts	of the machine			
40.	Perform de-installation of machine from	m foundation			
41.	Record de-installation of machine				
42.	Perform de-energizing of machine				
Compe	etent 🗆	Not Yet Compe	tent 🗆		
Portfolio(if any) Description of portfolio					
Current	:□ Sufficient□ Authenti	l c□ Validl			Reliable 🛘
Portfoli	o meet the following performance stand		Yes	No	Remarks
1	Performance criteria 1			-	
2	Performance criteria 2				
3	Performance criteria 3				
4	. cdinand ontona o				
		Not Vet O	tout 🗖		
Compe	tent 🗀	Not Yet Compe	etent 🗀		

Assessors Judgment Guide TITLE OF QUALIFICATION

(Summative Assessment/Knowledge part)

Title of Qual Electrical Ma		tion: e Winding Technician	CS Code	: Leve	l: 2	Version:		
Competency			Assessn	nent Date (D	D/MM/YY)	:		
		uipment and Machinery						
		spection/testing of machine						
•		nical De-Installation of Machine						
Ensure Electi	rical	isolation of Machine						
Guidance for Candidate		complete your assessment for to swer the questions on the follow				need to		
Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)								
Candidate Name:		Name:	Registration/Roll Number:					
Details		Candidate Signature:						
		COMPETENT	NOT YET COMPETENT□					
Written Assessment		Name of the Assessor: Assessor's code:						
Outcome Signature of the Assessor:		Signature of the Assessor:						
					T			
Title of Qualification: Electrical Machine Winding Technician				CS Code:	Level:2	Version:		
Competency Standard Title:				Assessme	nt Date (D	D/MM/YY):		
Perform Elec	l Isolation of Faulty Machine							

Questi	on	Candidate's answer
1.	Define Calibration of instruments?	Calibration means to remove the zero error from the instruments.
2.	Describe function of megger?	Megger is used to measure mega ohms parameters.
3.	Why the supply sources are needed to be switched off before performing electric isolation of machine.	The supply sources are disconnected before performing the electrical isolation of machine so that to avoid any electrical shocks / damage.
4.	Why coupling is used with motors?	A coupling is a device used to connect two shafts together at their ends for the purpose of transmitting power. Couplingsdo not normally allow disconnection of shafts during operation, however there are torque limiting couplings which can slip or disconnect when some torque limit is exceeded.
5.	What are the types of shaft coupling?	A shaft coupling may be either: Rigid Flexible
6.	How electrical isolation is achieved?	Electrical isolation is achieved using a mechanical switch that isolates a section of a circuit from the mainelectrical power system as and when required.
7.	Why is electrical isolation important?	We use isolation to prevent the transfer of high or hazardous voltages between circuits. We typically block these voltages using isolation for safety reasons and protection from electric shock, but also to block high common mode voltage present in our signals which can prevent its measurement and damage equipment.
8.	What is isolation certificate?	An isolation certificate provides the details for the effective management of hazards in the work place. You can also use isolation certificates as a method of communication between the personnel who are responsible for the operation of the plant and the personnel who plan and carry out the isolation activities.
9.	What is safe isolation in electrical?	Safe isolation has long been a procedure carried out by a competent person in order to safely isolate electrical circuits or equipment before electrical work is undertaken.
10.	Why electrical isolation is required?	Electrical isolation is required to prevent damage to either electrical circuit when one of them is under fault conditions. It is also done to isolate high voltage and low voltage circuits.

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National Vocational and Technical Training Commission (NAVTTC)

- Plot 38. Kirthar Road, Sector H-9/4, Islamabad, Pakistan
- +92 51 9044 322
- info@navttc.org
- www.navttc.org