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071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/OS/PO/CR/03/5/A

Install Electrical Machines Control System

Nov/Dec 2024

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

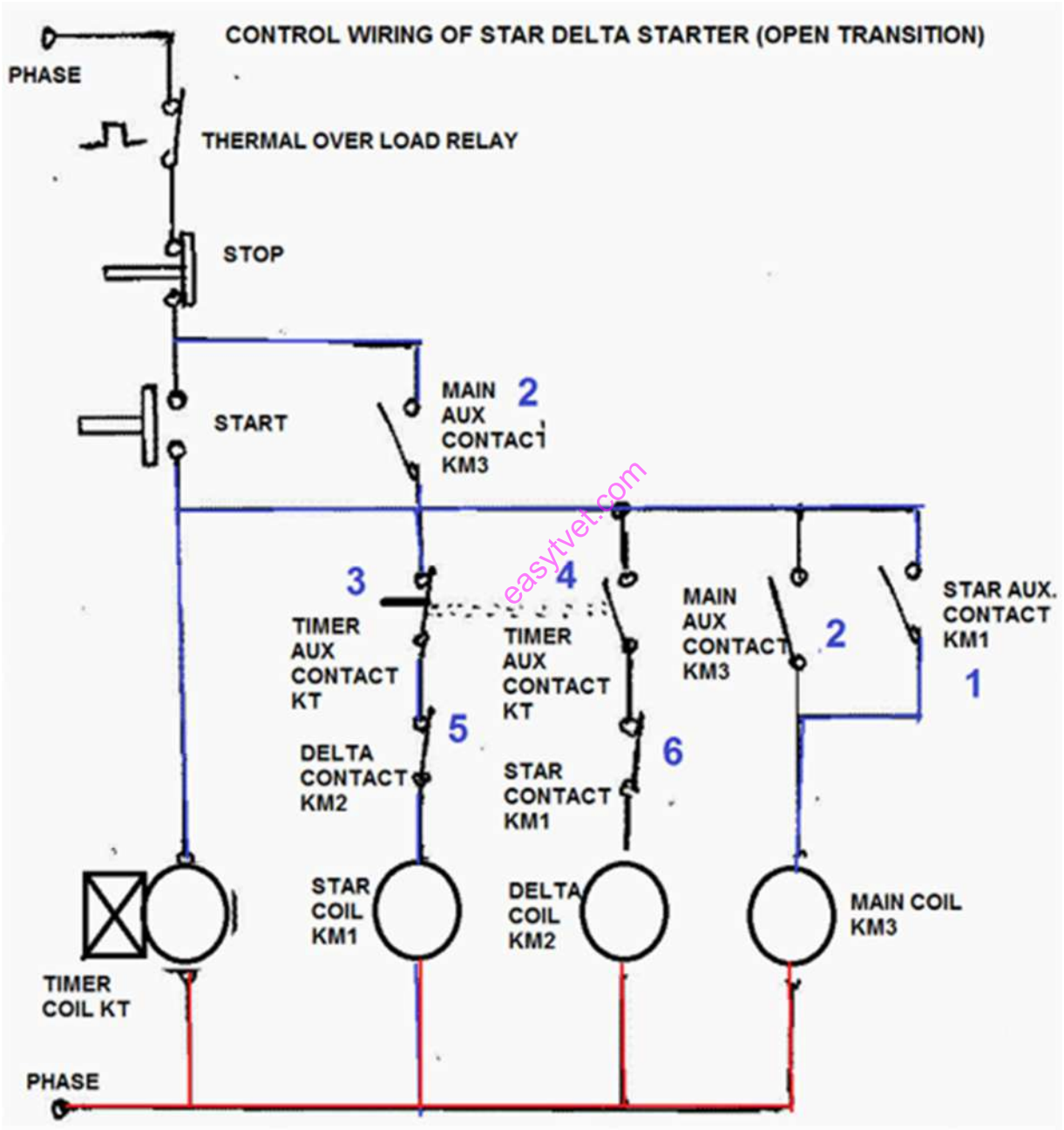
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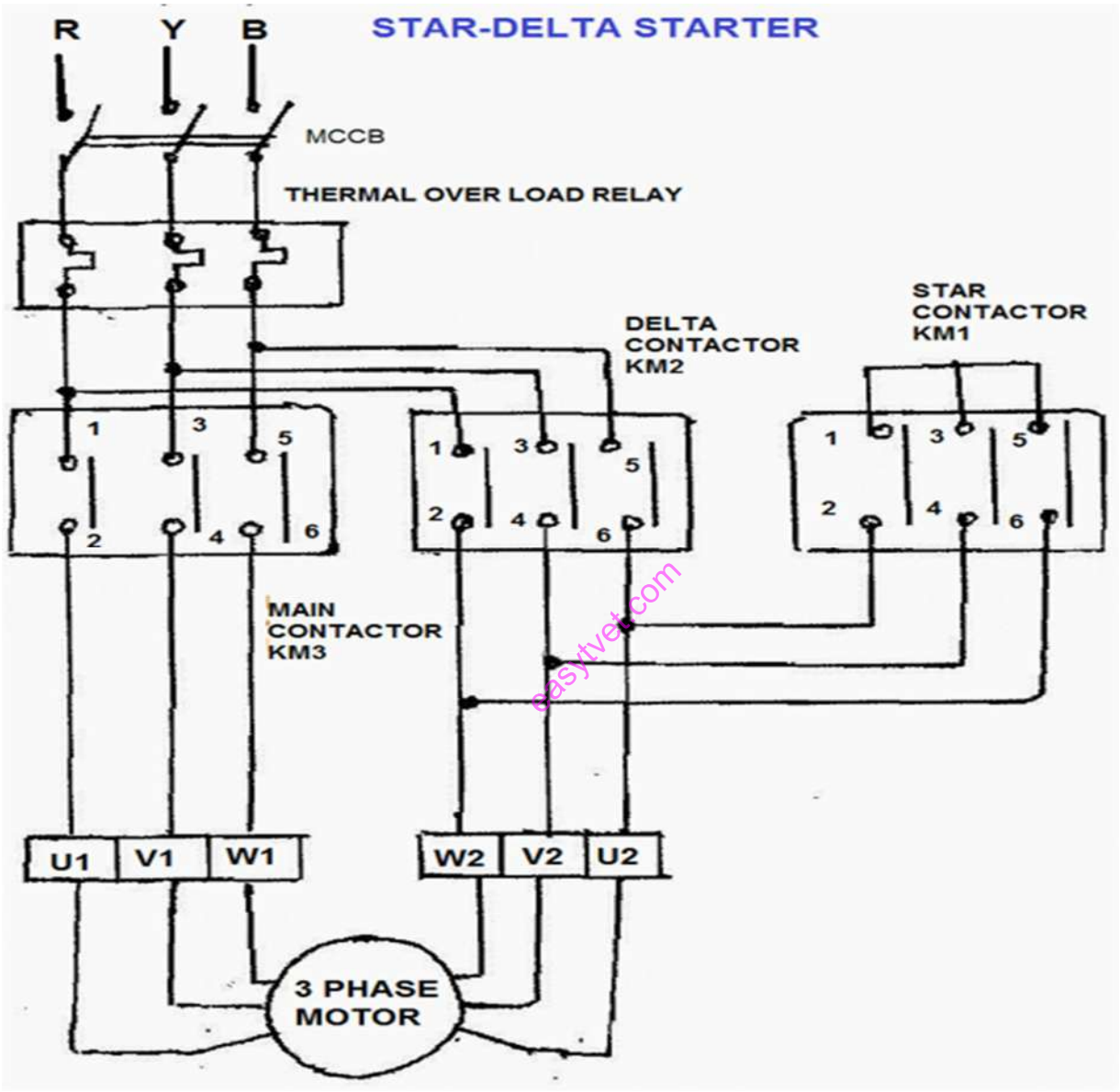
PRACTICAL ASSESSMENT

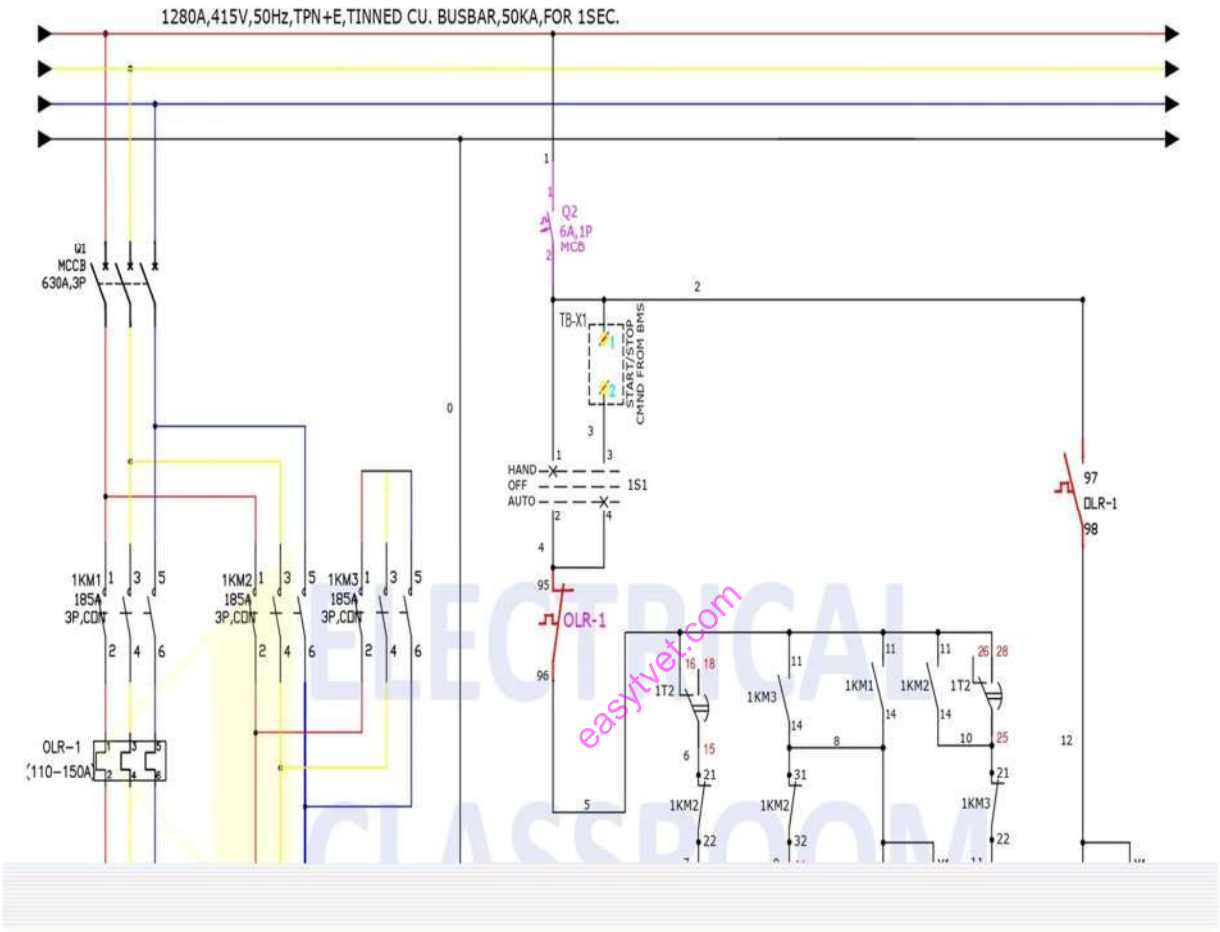
INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST




R
Y
B
STAR-DELTA STARTER
MCCB
THERMAL OVER LOAD RELAY
DELTA CONTACTOR KM2
STAR CONTACTOR KM1
MAIN CONTACTOR KM3
1
3
5
2
4
6
U1
V1
W1
W2
V2
U2
3 PHASE MOTOR
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Candidate's name & Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency			
Venue of Assessment			
Date of assessment			
Items to be evaluated: ***(Award appropriate marks for each item evaluated)***	**Marks available**	**Marks obtained**	**Comments**
OBSERVATION CHECKLIST			

1.	Safety awareness			
1.	Safety boots (***Award* 0 *or* 2**)	2		
2.	Apron(***Award* 0 *or* 2**)	2		
3.	Proper handling of tools (***Award* 0 *or* 2**)	2		
4.	Proper handling of equipment(***Award* 0 *or* 2**)	2		
5.	Housekeeping and waste disposal(***Award* 0 *or* 1**)	1		
Sub total		**09**		
OBSERVATION CHECKLIST				
TASK 1 - Drawing				
6.	Correct circuit diagram			
1.	Main contactor ***(Award 4 marks done correctly, otherwise zero)***	4		
2.	Star and delta contactor ***(Award 4 marks for star, 4 marks for delta, otherwise zero)***	8		
3.	Thermal overload and start and stop button ***(Award 2 marks if done correctly, otherwise zero)***	2		
Sub total		**14**		
TASK 2 – drawing				
4.	List of Correct circuit diagram			
5.	Main contactor ***(Award 4 marks done correctly, otherwise zero)***	4		
6.	Star and delta contactor ***(Award 4 marks for star, 4 marks for delta, otherwise zero)***	8		
7.	Thermal overload and start and stop button ***(Award 2 marks if done correctly, otherwise zero)***	4		

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Sub total		**14**		
TASK 3 - drawing				
8.	List of Correct circuit diagram			
9.	Main contactor ***(Award 4 marks done correctly, otherwise zero)***	**4**		
10.	Star and delta contactor ***(Award 4 marks for star, 4 marks for delta, otherwise** zero)*	**8**		
11.	Thermal overload and start and stop button ***(Award 2 marks if done correctly, otherwise zero)***	**2**		
Sub total		**14**		
TASK 4- Installation				
12.	Cable terminations (firm, folded, not nicked) and correct connection at: 1. 3 phase circuit breakers (***Award* 0 *or* 4**) 2. Main contactor with overload(***Award* 0 *or* 2**) 3. Star contactor(***Award* 0 *or* 2**) Delta contactor (***Award* 0 *or* 3**) 4. *start and stop buttons*(***Award* 0 *or* 3**) 5. indicator lamp red (***Award* 0 *or* 2**) 6. indicator lamp yellow(***Award* 0 *or* 2**) 7. indicator lamp green t(***Award* 0 *or* 2**)	4 2 2 3 3 2 2 2		
8.	Removal of burs (***Any* 3 × 1**)	3		
9.	Conduit terminations (***Any* 4 × 1**)	4		
10.	Uniform spacing of spacer bar sandals (***Award* 2 *or* 0**)	2		
Sub total		**27**		

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TASK 5- Testing				
11.	Performed physical inspection (***Award* 0 *or* 3**)	3		
12.	Performed testing: - Test for input supply(***Award* 0 *or* 2**) -Short circuit tests(***Award* 0 *or* 2**) -Open circuit tests(***Award* 0 *or* 2**)	 2 2 2		
13.	Compiled test report (***Award* 0 *or* 5**)	5		
14.	Issued installation test and wiring certificates(***Award* 0 *or* 2**)	2		
Sub total		**16**		
	Total marks	**94**		

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The candidate was found to be: (Please tick (√) as appropriate)

Competent		Not yet competent	

The candidate is competent if they score 50% of total marks

Feedback from candidate:

Feedback to candidate:

Candidate's signature:		**Date:**
Assessor's signature:		**Date:**

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