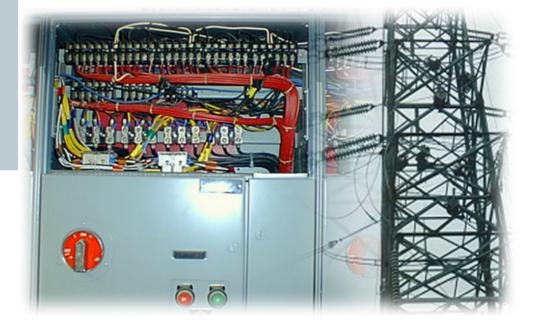
Kingdom of Saudi Arabia General Organization for Technical Education and Vocational Training Directorate General For Curricula Design & Development



nal Occupational Skill Standards For Assistant Electrical Technician



1425 H

DACUM Chart For Assistant Electrical Technician

DACUM Panel

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Water and Sewege Authority (Riyadh)

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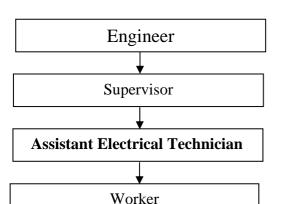
King Faisal Specialized Hospital And Reserch Center

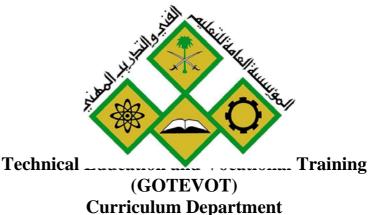
DACUM Facilitators

Mr. Saleh Abdullah Alromi

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Organizational Structure

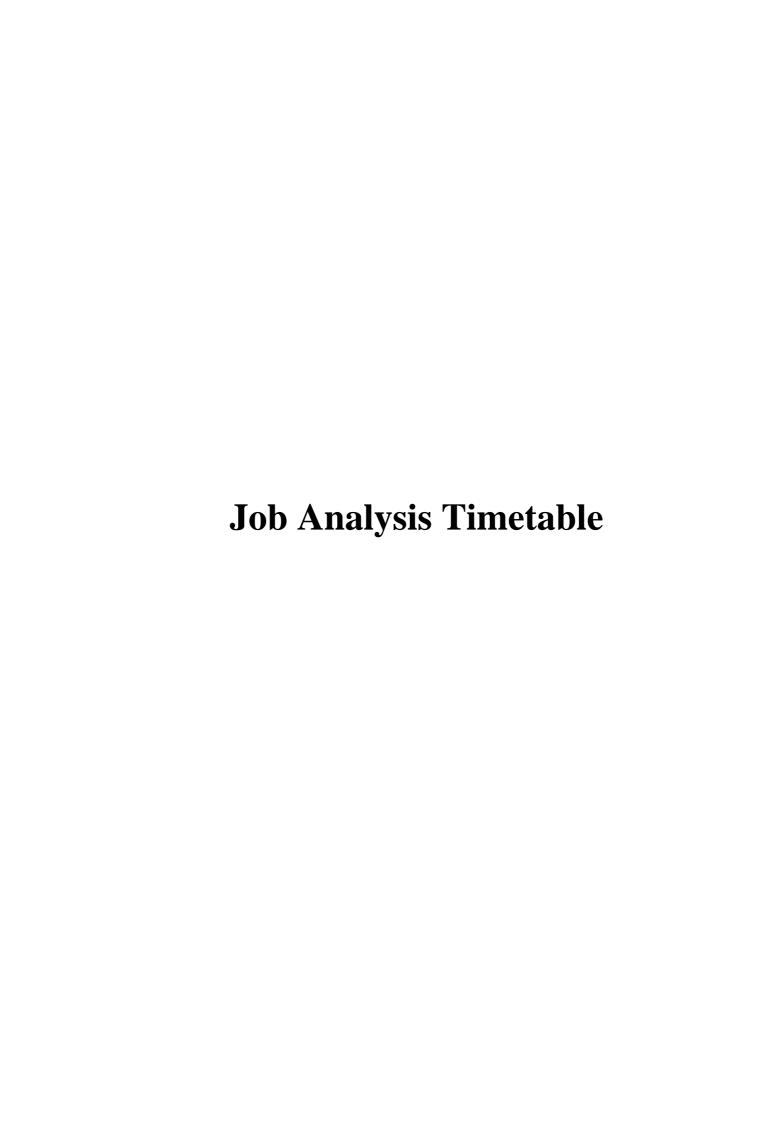




Produced for: Assistant Electrical Technician



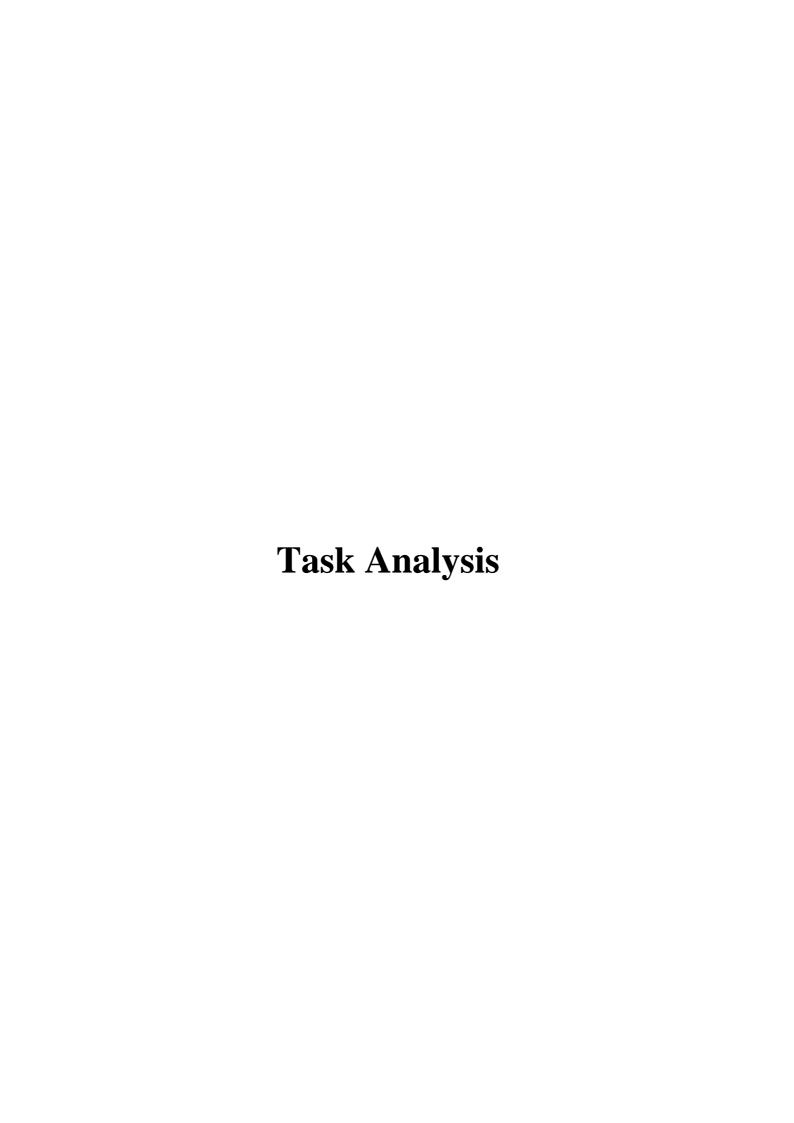
Date 5 – 1423 H



		A1)	A2)	A3)	A4)	A5)
A	Participate in the periodical maintenance of electric machines and equipments	Follow the authorized maintenance table	Participate in dismantling the machine parts	Participate in checking the machine parts	Participate in replacing the machine parts according to the authorized maintenance program	Participate in assembling the machine parts
		B1)	B2)	B3)	B4)	B5)
В	Participate in the new electrical installations	Participate in reading electric layouts	Prepare the needed material and tools	Participate in choosing the proper electric source	Participate in fixing electric devices and equipments	Install cables and conductors
	Participate in	C1)	C2)	C3)	C4)	C5)
C	maintaining the distribution boards and circuit breakers	Follow the authorized maintenance table	Participate in coordination with related departments.	Participate in isolating circuit breaker and distribution board	Participate in checking the distribution board and circuit breaker	Participate in replacing the damaged or exploited parts
	D. 41.14.1.4b.	D1)	D2)	D3)	D4)	D5)
D	Participate in the periodical maintenance of electric devices	Receive the electric device	Dismantle the device	Examine the electric device	Replace the exploited parts	Assemble the device parts
		E1)	E2)	E3)	E4)	E5)
E	Participate in reparing electric devices	Receive the electric device	Dismantle the device	Examine the electric device	Replace the damaged parts	Assemble the device parts

A6)	A7)	A8)		
Participate in testing the machine after maintenance	Participate in operating and observing the machine	Participate in preparing the report		
B6)	B7)	B8)		
Participate in connecting the loads to the circuit breaker according to the authorized layouts	Participate in examining the circuit before and after operation	Participate in preparing the report		
C6)	C7)	C8)		
Participate in examining the internal and external connection	Participate in examining the distribution board and the circuit breaker after maintenance	Participate in preparing the report		
D6)	D7)			
Test the device after maintenance	Participate in preparing the report			
E6)	E7)			
Test the device after maintenance	Participate in preparing the report			

G	eneral knowledge and skills		Work B	Ethics
1.	Having reasonable English	1.	Truthful	
2	language	2.	Patient	
2.	Having basic knowledge of chemical materials	3.	Honest	
3.	Having basic knowledge of	4.	Good personality	
	mathematics	5.	Ability to take the right de	ecision
4.	Having basic knowledge of	6.	Wearing the formal unifor	m
_	physics	7.	Respect the others point of	f view
5.	Having knowledge of standard measuring units	8.	Keep instructions and regu	ılations
6.	Having knowledge of principles of	9.	Keep work secrets	
0.	international standards	10.	Taking care of properties	
7.	Ability to read electrical drawings	11.	Team work	
	and layouts	12.	Benefit from others experi	ence
8.	Skilful in using computers	13.	Punctual	
		14.	Sincere	
	Future Interests		Equipment, tools	
1.	Improve the society vision to technical work		AVO meters	14. Computer
2.	Attend training courses		Suitable insulated hand tools	15. Wireless communication
3.	Follow up new trends in his field	3.	Cable route indicating	instrument
4.	Employment safety		instrument	16. Cable scissors
	1 3	4.	Megger	17. Piston
			Secondary injection	18. Electric drill
			measuring instruments	19. Cable pulling
			High voltage testing meter	instrument
			Oil insulation testing	20. Gas cylinder
			instrument	21. Oxygen cylinder
			Polarity indicating	22. Welding tools
			instrument	23. Remote cable gur
			Pulleys	24. Wire pulling instrument
		10. Fork lefts 11. Ladders		25. Discharging
				instrument
			. Safety uniforms	
			. Safety tools	



Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Follow the authorized maintenance table	Task NO.	A1
Performance Objective	Read and follow the authorized maintenance time table		

Steps	Performance Standard
Participate in reading the maintenance	• Participate in following up the
time table.	maintenance time table.
• Participate in determining the machine	
that need to be maintained.	
• Participate in determining the spare	
parts, tools, and equipment needed.	
• Participate in coordination with the	
related department.	
• Participate in determining the	
beginning and the end of maintenance	
period.	

Knowledge	Safety	Equipment and Tools
• Knowledge of periodical		Maintenance manual
maintenance procedures.		 Suitable forms
• Knowledge of English		
language.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in dismantling the machine parts	Task NO.	A2
Performance Objective	Participate in dismantling the machine parts using suitable tools and equipment to be able to maintain the machine.		

Steps	Performance Standard
 Participate in putting the guide signs. Participate in earthing the machine. Participate in dismantling the outer parts of the machine. Participate in dismantling the inner parts of the machine. 	 Participated in isolating the machine. Participated in dismantling the machine parts.

Knowledge	Safety	Equipment and Tools
 Knowledge of periodical maintenance procedures. Knowledge of English language. Knowledge of methods of dismantling and assembling the machines. 	• Wearing work uniform.	^

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in checking the machine parts	Task NO.	A3
Performance Objective	Participate in checking the machine parts using suitable methods in order to perform the periodical maintenance.		

Steps	Performance Standard
• Participate in preparing the inspection devices and suitable tools.	Participated in preparation for machine inspection
 Participate in reading operation and maintenance manuals. Participate in checking the machine parts. 	Participated in checking the machine according to operation and maintenance manual.
Participate in determining the damaged parts.Notify about the faults found	

Knowledge	Safety	Equipment and Tools
 Knowledge of periodical maintenance procedures. Knowledge of English language. Knowledge of reading operation and maintenance manuals. 	uniform.	 Multi-meter Guide signs Suitable uniform Operation and maintenance manuals Suitable inspecting devices.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in replacing the machine parts according to the authorized maintenance program	Task NO.	A4
Performance Objective	Participate in replacing the machine parts according to the authorized maintenance program to ensure safe operation.		

Steps	Performance Standard
 Participate in dismantling the parts according to the maintenance program. Participate in according the spare parts specifications with the original parts. Participate in assembling the new parts. 	• Participated in replacing the machine parts according to operation and maintenance manual.

Knowledge	Safety	Equipment and Tools
 Knowledge of periodical maintenance procedures. Knowledge of English language. Knowledge of spare parts types. 	uniform.	 Guide signs Suitable uniform Operation and maintenance manuals Suitable inspecting devices.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in assembling the machine parts	Task NO.	A 5
Performance Objective	Participate in assembling the machine parts using suitable methods to ensure safe operation		

Steps	Performance Standard
Participate in assembling the inner	Participated in assembling, examining,
parts of the machine.	and operating the machine.
 Participate in assembling the outer 	
parts of the machine.	

Knowledge	Safety	Equipment and Tools
 Knowledge of periodical maintenance procedures. Knowledge of English language. Knowledge of methods of dismantling and assembling. 	Wearing work uniform.Using guide signs	 Guide signs Suitable uniform Operation and maintenance manuals Suitable inspecting devices. Multi-meter

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in testing the machine after maintenance	Task NO.	A6
Performance Objective	Participate in testing the maintained machine using suitable methods to ensure safe operation		

Steps	Performance Standard
 Participate in examining the assembly of the machine parts. Participate in preparing the suitable inspecting devices Participate in examining the machine. Participate in reconnecting the machine to the power source. 	Participated in examining the machine according to operation and maintenance manual.

Knowledge	Safety	Equipment and Tools
 Knowledge of periodical maintenance procedures. Knowledge of English language. Knowledge of methods of testing the machines. Knowledge of reading layouts. 	Wearing work uniform.Using guide signs	 Guide signs Suitable uniform Suitable inspecting devices. Suitable tools Multi-meter

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in operating and observing the machine	Task NO.	A7
Performance Objective	Participate in operating and observing the machine to ensure safe operation		

Steps	Performance Standard
 Participate in operating the machine. Participate in observing the machine. Participate in recording readings and notes. 	Participated in observing the machine after operation.

Knowledge	Safety	Equipment and Tools
Knowledge of periodical	• Wearing work	• Guide signs
maintenance procedures.	uniform.	• Suitable uniform
 Knowledge of English 	 Using guide signs 	 Suitable inspecting
language.		devices.
 Knowledge of methods 		• Suitable tools
of testing the machines.		Multi-meter
 Knowledge of reading 		
layouts.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric machines and equipment	Duty NO.	A
Task	Participate in preparing the report	Task NO.	A8
Performances Objectives	Participate in preparing the report using special forms to be referred to when necessary		

Steps	Performance Standard
 Participate in collecting data from the site. Participate in recording a description for the work done by the teamwork. Participate in recording the time and place of the work done. Participate in writing the 	 Participated in recording a description for the work done by the teamwork. Participated in writing the recommendation for future work. Participated in recording the time and place of the work done.
recommendation for future work.	

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods or writing technical reports. Knowledge of computers. 	·	Technical report forms.Computer.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in reading electric layouts	Task NO.	B1
Performance Objective	Participate in reading electric layouts to ensure correct installation		

Steps	Performance Standard
layouts	 Participated in determining the electric layouts Participated in according the electric layouts
• Participate in according the electric layouts	

Knowledge	Safety	Equipment and Tools
• Knowledge of English language.		Operation and maintenance manuals
• Knowledge of methods of		Authorized layouts.
reading the electric layouts.		• Suitable measuring tools
• Knowledge of methods of		
electric installations.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Prepare the needed material and tools	Task NO.	B2
Performance	Prepare the needed material and tools to facilitate the		
Objective	installation		

Steps	Performance Standard
 Review the quantity table Participate in reviewing the authorized electric layouts Prepare the needed material and tools 	Prepared the needed material and tools according to the tables and layouts.

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. 		 Suitable tools and equipment. Authorized layouts. Quantity tables. Work uniform

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in choosing the proper electric source	Task NO.	В3
Performance Objective	Participate in choosing the proper electric source		

Steps	Performance Standard
 Participate in reviewing the authorized electric layouts Participate in determining the electric loads. Participate in determining the proper electric source. 	Participate in determining the proper electric source according to the authorized layouts.

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. 	uniform.	 Authorized layouts. Quantity tables. Work uniform Suitable tools and equipment.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in fixing electric devices and equipment	Task NO.	B4
Performance	Participate in fixing electric devices and equipment using		
Objective	suitable tools and equipment.		

Steps	Performance Standard
 Participate in reviewing the authorized electric layouts Participate in determining the place of the machine. Punch the needed holes to fix the machine. Participate in fixing the machine in the specified place. Attach the fixing screws 	 Participated in determining the place of the machine. Participated in fixing the machine in the specified place.

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. 	uniform. • Using guide signs.	 Suitable tools and equipment. Multi-meter. Work uniform. Guide signs. Authorized layouts. Crane.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Install cables and conductors	Task NO.	B5
Performance Objective	Install cables and conductors from the source to the machine using suitable tools and equipment.		

Steps	Performance Standard
 Participate in reviewing the authorized electric layouts Participate in determining the cable paths Determine the cables and conductors cross-sections. Determine the cables and conductors. 	Installed the cables and conductors according to the layout.

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. Knowledge of cables and conductors types Knowledge of methods of installing cables and conductors. 	uniform. • Using guide signs.	 Authorized layout. Suitable tools and equipment. Work uniform. Guide signs.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in connecting the loads to the circuit breaker according to the authorized layouts	Task NO.	В6
Performance Objective	Participate in connecting the loads to the circuit breaker according to the authorized layouts using suitable tools and equipment to ensure safe operations.		

Steps	Performance Standard
 Participate in reviewing the authorized electric layouts Determine the ends to be connected Remove the insulators at the ends to be connected. Connect and solder the ends to be connected. 	Participated in connecting loads to circuit breakers according to the authorized electric layouts

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. Knowledge of connecting 	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. End connectors Guide signs.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in examining the circuit before and after operation	Task NO.	В7
Performance Objective	Participate in examining the circuit before and after operation using suitable methods to ensure safe operation.		

<u> </u>	Participated in examining the electric circuits before and after operation.

Knowledge	Safety	Equipment and Tools
 Knowledge of English language. Knowledge of methods of reading the electric layouts. Knowledge of methods of electric installations. Knowledge of methods of examining the electric circuits. 	uniform. • Using guide signs.	 Suitable tools and equipment. Work uniform. Authorized layouts. Guide signs. Multi-meter

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the new electrical installations	Duty NO.	В
Task	Participate in preparing the report	Task NO.	В8
Performance	Participate in preparing the report using special forms to be		
Objective	referred to when necessary		

Steps	Performance Standard
• Participate in collecting data from the site.	• Participated in recording a description for the work done by the teamwork.
 Participate in recording a description for the work done by the teamwork. Participate in recording the time and place of the work done. Participate in writing the recommendation for future work. 	 Participated in writing the recommendation for future work. Participated in recording the time and place of the work done.

Knowledge	Safety	Equipment and Tools
• Knowledge of English		• Technical report forms.
language.		Computer.
• Knowledge of methods		_
or writing technical		
reports.		
Knowledge of		
computers.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	С
Task	Follow the authorized maintenance table	Task NO.	C1
Performance Objective	Follow the authorized maintenance table to maintain distribution boards and circuit breakers.		

Steps	Performance Standard
 Participate in reading the maintenance table. Participate in determining the boards and the circuit breakers to be maintained. Participate in determining the spare parts and materials needed. Participate in the coordination with the related departments. Participate in setting up time for the beginning and the end of maintenance period. 	Participated in following up the maintenance table.

Knowledge	Safety	Equipment and Tools
 Knowledge of the periodical maintenance procedures. Knowledge of English language. 	Wearing work uniform.Using guide signs.	 Maintenance manual. Suitable forms

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	C
Task	Participate in coordination with related departments	Task NO.	C2
Performance Objective	Participate in coordination with related departments to be able to perform the needed maintenance.		

Steps	Performance Standard
 Receive the work order. Fill the maintenance form. Participate in determining the maintenance place. Participate in determining the time needed for maintenance. Participate in the coordination with the related departments. 	Participated in the coordination with the related departments.

Knowledge	Safety	Equipment and Tools
Knowledge of proper communication methods.		Suitable forms.Communication device.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	С
Task	Participate in isolating circuit breaker and distribution board	Task NO.	С3
Performance Objective	Participate in isolating circuit breaker and distribution board using suitable methods to be able to perform the needed maintenance safely.		

Steps	Performance Standard
 Participate in determining the distribution panel and circuit breakers to be maintained. Participate in isolating the distribution board and the circuit breakers. Participate in connecting the distribution panel and the circuit breaker to ground. 	

Knowledge	Safety	Equipment and Tools	
• Knowledge of the periodical maintenance procedures.	• Wearing work uniform.	• Suitable tools and equipment.	
• Knowledge of English language.	• Using guide signs.	 Work uniform. Authorized layouts.	
• Knowledge of isolation methods.		 Guide signs. Multi-meter. Operation and	
		maintenance manuals.	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	C
Task	Participate in checking the distribution board and circuit breaker	Task NO.	C4
Performances Objectives	Participate in checking the distribution board and circuit breaker using the suitable methods to find out the damaged parts.		

Steps	Performance Standard	
 Participate in dismantling the distribution panel and circuit breakers. Participate in examining the parts according to the maintenance table. Participate in examining exploited parts in the distribution board and circuit breaker. 	Participated in examining the parts of the distribution board and circuit breaker.	

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures. Knowledge of English language. 	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. Authorized layouts. Guide signs. Multi-meter. Operation and 	
		maintenance manuals.	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	C
Task	Participate in replacing the damaged or exploited parts	Task NO.	C5
Performance Objective	Participate in replacing the damaged or exploited parts using the suitable tools and equipment to ensure safe operation of the board and the circuit breaker.		

Steps	Performance Standard
 Clean the distribution board and circuit breaker parts. Participate in dismantling the damaged and exploited parts. Participate in according the specification of the spare parts to the original parts. Participate in assembling the new parts. Participate in examining the new parts after assembly. Grease the parts that need to be greased. 	 Participate in replacing the damaged or exploited parts correctly. Participated in cleaning the circuit breaker, board parts and connection points.

Knowledge	Safety	Equipment and Tools	
• Knowledge of the cleaning		• Suitable tools and	
methods used for boards and	uniform.	equipment.	
circuit breakers.	• Using guide signs.	• Work uniform.	
• Knowledge of the periodical		• Authorized layouts.	
maintenance procedures.		• Guide signs.	
• Knowledge of English		• Multi-meter.	
language.		• Operation and	
		maintenance manuals.	
		 Cleaning and greasing 	

materials.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	С
Task	Participate in examining the internal and external connection parts	Task NO.	C6
Performance Objective	Participate in examining the internal and external connection parts to ensure safe operation of the board and the circuit breaker.		

Steps	Performance Standard
 Participate in examining the connection of cables in the board and circuit breaker. Examine the cable paths. Participate in assembling the new parts. Examine the cable numbering. Check the cables and conductors. Check the cables and conductors connections. 	1

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures. Knowledge of English language. 	 Wearing work uniform. Using guide signs. 	 Suitable tools and equipment. Work uniform. Authorized layouts. Guide signs. Multi-meter. Operation and 	
		maintenance manuals.	
		Megger.	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	C
Task	Participate in examining the distribution board and the circuit breaker after maintenance	Task NO.	C7
Performance	Participate in examining the distribution board and the		
Objective	circuit breaker after maintenance using suitable methods.		

Steps	Performance Standard
 Participate in observing the parts of board and circuit breaker. Check the bars of the distribution board. Make sure of good earthing connections. Participate in connecting the board and the circuit breaker to the source. 	Participated in checking the board and the circuit breaker correctly.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures. Knowledge of English language. Knowledge of examining the boards and circuit breaker methods. 	uniform. • Using guide signs.	 Suitable tools and equipment. Work uniform. Authorized layouts. Guide signs. Multi-meter. Operation and maintenance manuals. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in maintaining the distribution boards and circuit breakers	Duty NO.	C
Task	Participate in preparing the report	Task NO.	C8
Performance Objective	Participate in preparing the report using special forms to be referred to when necessary		

Steps	Performance Standard	
Participate in collecting data from the	Participated in recording a description	
site.	for the work done by the teamwork.	
• Participate in recording a description for the work done by the teamwork.	• Participated in writing the recommendation for future work.	
 Participate in recording the time and place of the work done. Participate in writing the recommendation for future work. 	• Participated in recording the time and place of the work done.	

Knowledge	Safety	Equipment and Tools
• Knowledge of English		• Technical report forms.
language.		• Computer.
• Knowledge of methods		
or writing technical		
reports.		
Knowledge of		
computers.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices	Duty NO.	D
Task	Receive the electric device	Task NO.	D1
Performance Objective	Receive the electric device that need to be maintained.		

Steps	Performance Standard
 Receive the maintenance request. Receive the device. Transfer the device to the workshop if needed. 	Received the device.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	uniform. • Using guide signs.	Suitable tools and equipment.Work uniform.Suitable forms.	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices	Duty NO.	D
Task	Dismantle the device	Task NO.	D2
Performance Objective	Dismantle the device using suitable methods.		

Steps	Performance Standard
 Check the appearance of the device. Dismantle the cover of the device. Dismantle the inner parts of the device if needed. 	Dismantled the electric device according to the maintenance manuals.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 		 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices	Duty NO.	D
Task	Examine the electric device Task NO. D3		D3
Performance Objective	Examine the electric device using suitable methods.		

Steps	Performance Standard
Check the device parts.Examine the device.Identify the exploited parts.	Examined the device.Identified the exploited parts.

Knowledge	Safety	Equipment and Tools
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. Knowledge of exploited parts. 	l C	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. Suitable inspection devices.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices		
Task	Replace the exploited parts	Task NO.	D4
Performance Objective	Examine the electric device using suitable methods to ensure safe operation.		

Steps	Performance Standard
 Dismantle the exploited parts. Check the accordance of the spare parts. Assemble the spare parts. Assemble the new parts. Examine the device. 	Replaced the exploited parts.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices		
Task	Assemble the device parts	Task NO.	D5
Performance Objective	Assemble the electric device parts using suitable methods to ensure safe operation.		

Steps	Performance Standard
Assemble the inner parts.Examine the device.	• Assembled the device parts using the authorized technical methods.
 Assemble the device cover. 	authorized technical methods.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices	Duty NO.	D
Task	Test the device after maintenance	Task NO.	D6
Performance Objective	Test the device after maintenance using suitable testing methods to ensure safe operation.		

Steps	Performance Standard		
 Prepare the testing devices. Connect the testing devices to the maintained device. Operate the maintained device. Test the device 	• Examined the performance of the device after maintenance.		

Knowledge		Safety	Equipment and Tools	
methods of electric dev	vices.	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in the periodical maintenance of electric devices	Duty NO.	D
Task	Participate in preparing the report	Task NO.	D7
Performance	Participate in preparing the report using special forms to be		
Objective	referred to when necessary		

Steps	Performance Standard		
• Participate in collecting data from the site.	• Participated in recording a description for the work done by the teamwork.		
 Participate in recording a description for the work done by the teamwork. Participate in recording the time and place of the work done. Participate in writing the recommendation for future work. 	 Participated in writing the recommendation for future work. Participated in recording the time and place of the work done. 		

Knowledge	Safety	Equipment and Tools
• Knowledge of English		• Technical report forms.
language.		Computer.
• Knowledge of methods		_
or writing technical		
reports.		
Knowledge of		
computers.		

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Receive the electric device Task NO. E1		E 1
Performance Objective	Receive the electric device that need to be maintained.		

Steps	Performance Standard
 Receive the maintenance request. Receive the device. Transfer the device to the workshop if needed. 	Received the device.

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	uniform. • Using guide signs.	Suitable tools and equipment.Work uniform.Suitable forms.	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Dismantle the device	Task NO.	E2
Performance Objective	Dismantle the device using suitable methods.		

Steps Performance Standard		
Receive the maintenance request.	• Dismantled the electric device	
• Check the appearance of the device.	according to the maintenance manuals.	
• Dismantle the cover of the device.		
• Dismantle the inner parts of the device		
if needed.		

Knowledge	Safety	Equipment and Tools	
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	•	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. 	

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Examine the electric device Task NO. E3		E3
Performance Objective	Examine the electric device using suitable methods.		

Steps	Performance Standard
 Check the device parts. Examine the device. Identify the damaged parts.	Examined the device.Identified the damaged parts.

Knowledge	Safety	Equipment and Tools
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. Knowledge of damaged parts. 	_	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals. Suitable inspection devices.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Replace the damaged parts	Task NO.	E4
Performance Objective	Examine the electric device using suitable methods to ensure safe operation.		

Steps	Performance Standard
 Dismantle the damaged parts. Check the accordance of the spare parts. Assemble the spare parts. Assemble the new parts. Examine the device. 	Replaced the damaged parts.

Knowledge	Safety	Equipment and Tools
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	l C	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Assemble the device parts	Task NO.	E5
Performance Objective	Assemble the electric device parts using suitable methods to ensure safe operation.		

Steps	Performance Standard
 Assemble the inner parts. Examine the device. Assemble the device cover. 	Assembled the device parts using the authorized technical methods.

Knowledge	Safety	Equipment and Tools
 Knowledge of the periodical maintenance procedures for electric devices. Knowledge of English language. 	Wearing work uniform.Using guide signs.	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Operation and maintenance manuals.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing electric devices	Duty NO.	E
Task	Test the device after maintenance	Task NO.	E 6
Performance Objective	Test the device after maintenance using suitable testing methods to ensure safe operation.		

Steps	Performance Standard		
 Prepare the testing devices. Connect the testing devices to the maintained device. Operate the maintained device. Test the device 	• Examined the performance of the device after maintenance.		

Knowledge	Safety	Equipment and Tools
 Knowledge of testing methods of electric devices. Knowledge of English language. 	uniform.	 Suitable tools and equipment. Work uniform. Guide signs. Multi-meter. Suitable testing devices.

Occupation	Electric technician assistant	Occupation NO.	
Duty	Participate in repairing or electric devices	Duty NO.	E
Task	Participate in preparing the report	Task NO.	E7
Performance	Participate in preparing the report using special forms to be		
Objective	referred to when necessary		

Steps	Performance Standard
• Participate in collecting data from the site.	• Participated in recording a description for the work done by the teamwork.
 Participate in recording a description for the work done by the teamwork. Participate in recording the time and place of the work done. Participate in writing the recommendation for future work. 	 Participated in writing the recommendation for future work. Participated in recording the time and place of the work done.

Knowledge	Safety	Equipment and Tools
• Knowledge of English		• Technical report forms.
language.		Computer.
• Knowledge of methods		_
or writing technical		
reports.		
Knowledge of		
computers.		