PASAY-G9-Q1-W2-D3

DEPARTMENT OF EDUCATION- NATIONAL CAPITAL REGION SCHOOLS DIVISION OF PASAY CITY

MODULE IN TLE 9 (Computer System Servicing) First Grading / Week 2 / Day 3

Name of Student:	 Grade and Section:	
Name of Teacher:		

Obiectives:

Assemble computer hardware in accordance with established procedures and system requirements.

- Distinguish safety precautions and personal protective equipment in assembling computer hardware.
- Classify precautionary measures in assembling computer hardware
- Express ideas and opinion about the importance of using safety precautionary measures observed in assembling computer hardware.

Lesson: Safety Precautions/Personal Protective Equipment (PPE)

The definition of safety precaution in the dictionary is a precaution that is taken in order to ensure that something is safe and not dangerous.

Personal Protective Equipment. It refers to protective clothing, helmets, goggles, or other gear designed to protect the wearer's body or clothing from injury by electrical hazards, heat, chemicals, and infection, for job-related occupational safety and health purposes.



- -PPE can also be used to protect the working environment from pesticide application, pollution or infection from the worker.
- -It is important that students and teachers during their laboratory period should be required to use personal protective equipment. Here are some examples of PPE:

PERSONAL PROTECTIVE EQUIPMENT



Goggles A large spectacles, with shields around the rims, for protecting the eyes from dust, excessive light, wind, etc.



Apron A garment worn over the front of the body as a protection for one's cloth.



Gloves The covering material with a separate sheath for each finger used for hand protection.



Rubber Sole A special type of shoes used to prevent electrical shock and for waterproofing and insulating purposes



Face Mask A covering for the face to prevent the inhaling or absorbing dust and other chemicals.



Anti-Static and Safety Precautions

The little shock you experience while you are walking across a carpeted floor or when you touched a door knob, table, counter or even another person is a result of static electricity. Static electricity is the discharge of electricity between two objects with different electrical potential. Humans can't feel a static shock until it is several thousand volts strong, but it takes less than 30 volts to fry a sensitive computer component, such as a stick of RAM or a processor.

REFERENCES FOR FURTHER ENHANCEMENT

- Book/Module: TLE ICT Computer Hardware Servicing 9, page 65
- YouTube: https://www.youtube.com/watch?v=q2yAHDkC6Nw https://www.youtube.com/watch?v=XVNMj0ZxZsI

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Name of Student:	Grade and Section:
Name of Teacher:	
TAKE NOTE	
	computer builders have to guard their computers
against the deadly ravages of static electricity, as well a	
Safety and Anti-Static Rules	
•	vorking on a computer (except when working on
monitors)	
 Always disconnect a computer from the AC pow working on it. 	er and from any powered peripherals while you are
	ssis with your bare hand before you touch anything
inside. Do this even if you are wearing an anti-si	
 Always handle electronic components by a no pins or other connectors. 	n-conducting (non-metallic) edge. Don't touch the
	wer unless it is connected either to a computer's
motherboard or to a dummy test load.	
 Always use a UL-approved surge protector or surge and spike protection. 	an Uninterruptible Power Supply that incorporates
 Never eat, drink, or smoke while working on a company 	omputer
	©
	WHAT TO PROCESS
EXERCISE 1: IDENTIFY	
Directions: Read the following sentences below and ide	
1. It is taken in order to ensure that someth	ing is safe and not dangerous. , goggles, or other gear designed to protect the
	electrical hazards, heat, chemicals, and infection,
for job-related occupational safety and h	
excessive light, wind, etc.	d the rims, for protecting the eyes from dust,
4. A special type of shoes used to prev	vent electrical shock and for waterproofing and
insulating purposes5. A garment worn over the front of the bod	ly as a protection for one's cloth
6. A covering for the face to prevent the inh	
7. The covering material with a separate sh	eath for each finger used for hand protection.
8. It can be used to protect the working er infection from the worker.	nvironment from pesticide application, pollution or
9. This tool is use once handling computer	parts to prevent grounding/electric shocks.
10. It is the discharge of electricity between t	
EXERCISE 2: TRUE OR FALSE	
Directions: Read carefully each statement below. Place	T on the line if the statement is TRUE. Place F if
the statement is FALSE.	
1. Always disconnect a computer from the while you are working on it.	AC power and from any powered peripherals
	er chassis with your bare hand before you touch
anything inside. Do this even if you are w	
3. Always handle electronic components by touch the pins or other connectors.	a non-conducting (non-metallic) edge. Don't
4. Always use a UL-approved surge protect	
incorporates surge and spike protection	

the statement	is FALSE.
1.	Always disconnect a computer from the AC power and from any powered peripherals while you are working on it.
2.	Always grasp a metal part of the computer chassis with your bare hand before you touch anything inside. Do this even if you are wearing an anti-static wristband.
3.	Always handle electronic components by a non-conducting (non-metallic) edge. Don't touch the pins or other connectors.
4.	Always use a UL-approved surge protector or an Uninterruptible Power Supply that incorporates surge and spike protection.
5.	Never use an anti-static wrist strap when working on a computer (except when working on monitors)
6.	Everyone is allowed to eat, drink, or smoke while working on a computer.
7.	Never plug an ATX power supply into AC power unless it is connected either to a computer's motherboard or to a dummy test load.
8.	Static electricity is the discharge of electricity between two objects with different electrical potential.
9.	Apron is a garment worn over the front of the body as a protection for one's cloth.
10.	PPE can also be used to protect the working environment from pesticide application, pollution or infection from the worker.

	of Student: of Teacher:				Grad	de and Se	ection:	
	•		ghts or opinion	about the	e following o	questions.	. Write your an	swers after each
1. Wh	y do you nee	d to mak	e sure the clea	nliness o	f work envir	onment o	r workplace?	
2. Wh	y do you nee	d to use	personal prote	ctive equi	ipment in ou	ır workpla	ice environmer	nt?
_	NGS TO RE				(())			a
2 3	Personal P protect the chemicals, Examples Static electron potential.	rotective wearer's and infect of PPE: 0 tricity is	•	PE) refersing from in lated occurs, Facem of electrand home	s to protecting the protection of the protection	ctrical haz afety and er Sole and en two ob builders h	ards, heat, health. d Apron ojects with diffenave to guard t	erent electrical heir computers ury.
					,		<u>'</u>	,
	JATION: MU				the letter o	£ ((
		e discha	ion carefully an rge electricity b b. Potential	etween t		with differ		
2.	happening.							onvenient from
3.	body or cloth occupationa	rotective ning from I safety a	b. Laxity clothing, helme injury by electr nd health purpo	ets, goggl rical haza oses.	es, or other irds, heat, c	gear des	and infection,	for job-related
4.		nt worn c	b. OHS over the front of	f the body		ction for o		above
5.		ng for the	b. Face Mask face to prever	nt the inha		orbing du		emicals.
6.	a. Anti-	ise once Static Wr	b. Face Mask handling comp ist Trap	uter parts	c. Pliers		d. Goggles g/electric shock	KS.
7.	b. Com A special typ purposes.		es used to prev		d. Tweezers rical shock a		aterproofing an	d insulating
8.			b. Crepe Sole h shields arour					s excessive light,
9.	a. Apro		b. Face Mask rates surge and		c. Gloves rotection.		d. Goggles	
	a. Brea b. Exte	ker nsion Wir	e	(c. Uninterrup d. None of tl	he above.		parate parts for
10.	each finger a	and the th	numb.	-		t and typic		odialo parto lui
	a. Apro	n	b. Face Mask	(c. Gloves		d. Goggles	

Prepared by:

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Name of Student: Name of Teacher:	Grade and Section:
ANSWER H	(EY
EXERCISE 1: IDENTIFY	
1. Precaution	
PPE (Personal Protective Equipment)	
3. Goggles	
4. Rubber sole	
5. Apron	
6. Face mask	
7. Gloves 8. PPE	
9. Anti-static wrist strap	
10. Static electricity.	
·	
EXERCISE 2: TRUE OR FALSE	
1. T	
2. F	
3. T 4. T	
5. F	
6. F	
7. T	
8. T	
9. T	
10. T	
EXERCISE 3: INSIGHT	
1. Why do you need to make sure the cleanliness of our	work environment or workplace?
1. Willy do you need to make sufe the dealimess of our	work on workplace:
Answers may differ due to personal Insight and opinion	on.
2. Why do you need to use personal protective equipme	ent in our workplace environment?
Answers may differ due to personal Insight and opinion	on.

EVALUATION: MULTIPLE CHOICE

Directions: Read each item carefully. Choose the letter that corresponds to the correct answer in the space provided.

- 1. D 2. D
- 3. C 4. A 5. B

- 6. A 7. C
- 8. D
- 9. C
- 10. C