

W1	Learning Area	TLE – Computer System Servicing	Grade Level	9
VV I	Quarter	Third	Date	

I. LESSON TITLE	Using Hand Tools
II. MOST ESSENTIAL LEARNING	Plan and prepare for tasks to be undertaken TLE_IACSS9 -
COMPETENCIES (MELCs)	12UHT-IIIa-17
III. CONTENT/CORE CONTENT	1.1 Identify and select appropriate hand tools according to the task requirements.
	References: TLE 9 Learner's Material in Computer Hardware Servicing First Edition, 2013 Page 61-63. IT Essentials: Computer Lab Procedures and Tool Use Link: https://www.ciscopress.com/articles/article.asp? p=2086239&seqNum =7#:~:text=Skilled%20use%20of%20tools%20and,for%20different%20types %20of%20jobs. Youtube: Hand Tools & Equipment in Computer Hardware Servicing Link: https://www.youtube.com/watch?v=WE2XdvaBb5k

	LI	nk: <u>nttps://www</u>	.youtube.com/watch?v=WE2Xava	BDSK
IV. LEARNING PHASES	Suggested Timeframe		Learning Activities	
A. Introduction Panimula	1 hour	Photo from: https://www.needp In a sheet of p 1. What 2. Which 3. Have B. Gather all tl	you will learn the importance of tools used in repairing computers. picture below. k.com/photo/download/93475/computer-problem-computer-pro	hang-frustration-desperation-bug-broken ns briefly and concisely. nputer? ome. Write the name of the
		Tool/s	Description	Function
		Screwdriver	It has a cross-shaped tip with a rubber handle	It is used to twist a screw
B. Development Pagpapaunlad	1 hour	from a tradition computer programmer function. Watch this vice Computer Hare https://www.you	ndheld device that aids in accomonal metal cutting part of a magram that activates and controls a deo in youtube, Grade 9 – TLE IC dware Servicing through this link: utube.com/watch?v=nOYFhJeS9JE&t=6.iiKLRNsuHtnoOBWADVw6 WBizBPTglafr	chine to an element of a particular T CSS Tools & Equipment in 603s&fbclid=lwAR2Tt7ok-



		Match the tool on the left to its correct des	cription on the right. Write your answer on a
			ece of safety gear that helps to prevent the of static electricity
		2. b. it is useful	I for reaching into small areas where cables materials have become unreachable with
		fingers	
			for cutting wires, screws and nails
		be easily	rool used for picking up objects too small to handled with the human fingers tronic measuring instrument that combines measurement functions in one unit
C. Engagement Pakikipagpalihan	1 hour	Computer repair requires some task-s familiar with the correct use of each to the task. Skilled use of tools and soft ensures that tasks are performed prop A. Below are some computer problem	specific tools. Make sure that you are pol and that the correct tool is used for ware makes the job less difficult and
		hardware.	
		Computer Problem	Tools to be used
		Photo from: https://www.pcmag.com/how-to/how-to-fixa-noisy-computer-fan 1. The battery of this laptop needs to	
		Photo from: http://www.notebookreview.com/notebookreview/lenovo- thinkpad-1460s-review/. 2. The fan of this system unit is noisy.	
		Photo from: https://helpdeskgeek.com/how-to/cd-dvd-drive-wont-open-eiect/ 3. DVD/CD drive will not eject or	
		Open. Photo from: https://www.technibble.com/computer-killers-pet-hair-dust-and-cigarette-smoke/	
		4. You have a dirty CPU. Photo from: https://www.fonerbooks.com/r video.htm	
		5. You must check your video card because the graphics of your PC is poor.	



		while doing the sound and effective topic. > Uplocation messons > The vi	nis activity fects as we ad your via age to you ideo must to the rub Advan All the demonstrate video is very reflective. Video has flair, emphas points; conta grammar. Video is well the subject Editing cohesiveness Sound is clea appropriate.	You can be ell as texts to deo in your ur teacher. be at least 5 rics below. ced (10) tools were d precisely. The engaging and originality and izing important tins no errors in lit and frames appropriately. enhances of video. r and volume is britted before	e creative on your vi o emphasize the imp class facebook pag	Developing (5) Some of the tools were demonstrated correctly. The video is quite engaging Video may contain several errors in grammar; errors may impede viewer's understanding. Speech lacks fluency. Video is fairly well lit within minimal movement. Subject is usually within the frame. Vlog is somewhat difficult to hear or is occasionally too loud. The video submitted after the deadline.
D. Assimilation Paglalapat	1 hour	correct use of Skilled use of tasks are perfo It is also impor	f each too tools and s ormed pro rtant that v gether sim ed to deso ch tool ac ewdriver Plier	I and that the software mosperly and so we know the ilar devices or ibe them.	te correct tool is used the correct tool is used the job less difficulties. It is classification of each and concepts, even their use.	are familiar with the d for the current task. cult and ensures that the tool. Classification when different terms estatic Mat Flashlight timeter
		you going to u B. Answer the 1. Why do we 2. Why do we	ked to ass use? following need to n	questions in nake plans b se the appro	a sheet of paper. before actions?	h group of tools are
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	1 hour	separate sheet separate sheet separate sheet sheet separate sheet she	ect the leter of papers is used for the leter of papers is used to leter of the let	ter of the cor. In ardware to the coosen or tighter coosen or tighter tighter ex driver coosen driver tighter ex driver coosen or tighter ex	stand on to prevent some stand on to prevent some screwd then crosshead screwd nut driver? It is used this screws? Thilips head screws? Philips head screws?	e your answers on a static electricity from diver d. Wire cutter ws? driver d. Wire cutter to tighten nuts in the driver d. Wire cutter



	Back before the control of the last
	5. Which tool is used to retrieve parts from locations that are too small for your hand to fit?
	a. Part Retriever b. Lint-free Cloth c. Cable ties d. Flathead screwdriver
	6. Which tool is used to clean different computer components without
	scratching or leaving debris?
	a. Part Retriever b. Lint-free Cloth c. Cable ties d. Flat head screwdriver
	7. Which tool is used to bundle cables neatly inside and outside of a computer?
	a. Part Retriever b. Lint-free Cloth c. Cable ties d. Flat head screwdriver
	8. Which tool is used to loosen or tighten slotted screws?
	a. Part Retriever b. Lint-free Cloth c. Cable ties d. Flat head screwdriver
	9. Which tool is used to loosen or tighten screws that have a star-like
	depression on the top, a feature that is mainly found on laptops?
	a. Anti-static mat b. Torx screwdriver c. Philips head screwdriver d. Wire cutter
	10. Which tool is used to blow away dust and debris from different computer
	parts without touching the components?
	a. Anti-static mat b. Hex driver c. Compressed air d. Wire cutter
VI. REFLECTION	The learner communicates the explanation of their personal
	assessment as indicated in the Learner's Assessment Card.
	The learner, in their notebook, will write their personal insights about the lesson using the prompts below.
	the lesson using the prompts below. I understand that
	I realize that
	I need to learn more about
Prepared by: Ana Jane S. Faylon/Loida S	. Narvaez Checked by: Florinda C. Gagasa
TLE-ICT-CY9-w1	



14/2	Learning Area	TLE - Computer System Servicing	Grade Level	9
W2	Quarter	3	Date	

I. LESSON TITLE	Using Hand Tools
II. MOST ESSENTIAL LEARNING COMPETENCIES (MELCs)	Prepare hand tools – TLE_IACSS9-12UHT-IIIb-18
III. CONTENT/CORE CONTENT	 2.1 Check appropriate hand tools for proper operation and safety. 2.2 Identify and mark unsafe or faulty tools for repair according to standard company procedure. References: "CHS Module 2 & 3 - Using Hand Tools." Accessed August 19, 2020. https://www.scribd.com/doc/219418979/CHS-Module-2-Using-Hand-Tools. "Cisco Press," March 12, 2012. https://www.ciscopress.com/articles/article.asp?p=2086239. Guy, Repair. "For An Effective Flat Head Screwdriver Use, Follow 3 Tips," July 27, 2020. https://repairinggear.com/3-tips-to-use-the-flat-head-screwdriver/. Accessed October 24, 2020. https://www.wisegeek.com/what-is-a-hex-screwdriver.htm.

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
A. Introduction Panimula	1 hour	In many types of work, hand tools are used everyday. They make work easier and allow people to be more efficient. However, many students often fail to see the hazards these tools can present. In this lesson you will learn how accidents can be significantly reduced and review the various hazards that are associated with specific types of tools. A. Below are the pictures of hand tools. Tell whether the tool is SAFE or UNSAFE. Write your answer on a separate sheet. 1. Problem Intelligence Land Heigh States A. What are the safety precautions you must consider while using it? Write your answer on a separate sheet. 1. Screwdriver — 2. Long Nose Pliers — 3. Wire Cutter — 4. Knife — 5. Wrench —



		C. Read and process the meaning	ng of quotation. Write down your insights on
		a sheet of paper.	
		SAFETY RULES ARE YOUR BEST TOOLS Photo from: https://www.pinterest.ph/pin/563442603365573	3507/
B. Development	1 hour		of non-powered devices, such as wrenches,
Pagpapaunlad		pliers, hammers and screwdrivers cause a lot of injuries. The two more of hand tools include misuse and Read and understand the information Sheet 2.2 Unsafe or Faulty Tools Lo2. Prepare Hand Tools Page #8 https://www.scribd.com/doc/219 For An Effective Flat Head Screwents://repairinggear.com/3-tips-Hex Screwdriver https://www.wisegeek.com/whamseparate sheet. I. Do's and Don'ts in using hand to the second se	a. Such devices may seem harmless, but they ost common hazards associated with the use improper maintenance. Ination in the following link: B and #9 9418979/CHS-Module-2-Using-Hand-Tools driver Use -to-use-the-flat-head-screwdriver/ Int-is-a-hex-screwdriver.htm is being asked. Write your answer on a gools.
			
		B. Directions. Enumerate what is I should bear in mind in using the f	being asked. What are the cautions that we
		HAND TOOLS	CAUTION
		1. Flat-Head Screwdriver	
		2. Hex Driver	
		3. Phillips-Head Screwdriver	
		4. Component Retrieving Tools	



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C. Engagement	1 hour			ositive effects of t		
Pakikipagpalihan				paper. Refer to t	rie rubrics belo	
		Relevance	All graphics are related to the topic and make it easier to understand.	All graphics are related to the topic and most make it easier to understand.	Some graphics relate to the topic.	Graphics do not relate to the topic
		Clarity	Graphics are all in focus and the content easily viewed	Most graphics are in focus and the content easily viewed	Most graphics are in focus and the content easily viewed	Many graphics are not clear or are too small.
			The poster is exceptionally attractive in terms of design, layout, and neatness.	The poster is attractive in terms of design, layout, and neatness.	The poster is acceptably attractive though it may be a bit messy.	The poster is distractingly messy or very poorly designed. It is not attractive.
			The poster submitted before the deadline	The poster submitted on time	The poster submitted 1 week after deadline	The poster submitted 2 weeks after deadline
		Put those too	ols in a safe con information on c	rools that are pre tainer and label a separate sheet ''s unsafe to use	it FAULTY HAND	
D. Assimilation Paglalapat	1 hour	Directions. In the lesson.	ne graphic orga	anizer below, wri	te down your l	earnings in our
			Faulty	or unsafe hand	tools.	
				l		
				Proper Use of Hand Tools		
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	1 hour			underlined word he statement co		False change
		of the switches2. Ne3. He3. He	or to delete the eedle-nose pliers ieve pieces that x driver is used to d.	s and <u>hex drivers</u> may be difficult b loosen and tigh	may be used to reach with y ten the bolts wit	o position and our fingertips. ha hexagonal
				iver are used to r <u>driver</u> as a pry b		nead screw



answer. 1. Which tool is used to retrieve parts from location that are too small for your hand to fit? a. Flashlight c. Punch down b. Part Retriever d. Wire cutter 2. Which tool is used to manipulate small parts? a. Hex Driver c. Tweezers b. Needle-nose plier d. Wire cutter 3. Which tool is used to loosen or tighten crosshead screws? a. Flat head screwdriver c. Needle-nose plier b. Hex driver d. Philips head screwdriver 4. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool c. ESD tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver c. Torx screwdriver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card. • The learner, in their notebook, will write their personal insights about
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b. Part Retriever 2. Which tool is used to manipulate small parts? a. Hex Driver c. Tweezers b. Needle-nose plier d. Wire cutter 3. Which tool is used to loosen or tighten crosshead screws? a. Flat head screwdriver c. Needle-nose plier b. Hex driver d. Philips head screwdriver 4. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver c. Torx screwdriver b. Part Retriever d. Wire cutter
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a. Hex Driver b. Needle-nose plier c. Tweezers b. Needle-nose plier d. Wire cutter c. Needle-nose plier b. Hex driver d. Philips head screwdriver d. Philips head screwdriver d. Philips head screwdriver d. Philips head screwdriver d. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool b. Diagnostic tool d. Hand tool b. Diagnostic tool d. Hand tool b. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
b. Needle-nose plier 3. Which tool is used to loosen or tighten crosshead screws? a. Flat head screwdriver b. Hex driver c. Needle-nose plier b. Hex driver d. Philips head screwdriver 4. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
3. Which tool is used to loosen or tighten crosshead screws? a. Flat head screwdriver c. Needle-nose plier b. Hex driver d. Philips head screwdriver 4. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool c. ESD tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver c. Torx screwdriver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
a. Flat head screwdriver b. Hex driver d. Philips head screwdriver d. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
b. Hex driver 4. What is a device for performing work on a material or a physical system using only hands? a. Cleaning tool b. Diagnostic tool c. ESD tool b. Diagnostic tool d. Hand tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver c. Torx screwdriver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
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b. Diagnostic tool 5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver b. Part Retriever c. Torx screwdriver d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
5. Which tool is used to tighten nuts in the same way that a screwdriver tightens screws? a. Hex driver b. Part Retriever o. Torx screwdriver d. Wire cutter vi. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
tightens screws? a. Hex driver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
a. Hex driver c. Torx screwdriver b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
b. Part Retriever d. Wire cutter VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
VI. REFLECTION • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card.
assessment as indicated in the Learner's Assessment Card.
assessment as indicated in the Learner's Assessment Card.
The learner in their notehook will write their nerconal incidate about I
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the lesson using the prompts below. I understand that
I realize that
I need to learn more about
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TLE-ICT-CY9-w2



W3	Learning Area	TLE – Computer Hardware Servicing	Grade Level	9
VV 3	Quarter	3	Date	

Using Hand Tools

I. LESSON TITLE

I. LESSON TITLE		Using Hand Tools			
II. MOST ESSENTIAL LEARNII COMPETENCIES (MELCs)	NG	Use appropriate hand tools and test equipment TLE_IACSS9-12UHT-IIIc-19			
III. CONTENT/CORE CONTE		PPE References: TLE 9 Learner's Material in C First Edition, 2013 Pages 33 "CHS Module 2 - Using Han Learning Outcome 3 - Pag	computer Hardware Servicing - 36 & 65-67 d Tools." Accessed August 19, 2020.		
IV. LEARNING PHASES	Suggested Timeframe		Learning Activities		
A. Introduction 30 minute.		Presentation Safety is always the prices safety procedures in a computers. There are a	rity in the workplace. In this lesson, you will learn the using hand tools while working with your personal lso different personal protective equipment that we tivities such as checking the computer hardware and re safety.		
			re list of tools we use when working with personal ast one (1) safety precaution you already know for		
		Name of Tool	Safety Precaution		
		1. Screwdriver			
		2. Multimeter			
		3. Wire Cutter			
		4. Long Nose Pliers			
		5. Utility Knives/Blade			
		B. Directions: List down of know and write its funct	at least five (5) personal protective equipment you ion.		
		Personal Protective Equipment (PPE)	Function		
B. Development Pagpapaunlad	1 hour & 30 minutes	Read and understand t Pages 33 – 36 & 65-67 a	he lessons on CHS Module for Grade 9 – 2013 Edition nd CHS Module 2 - Using Hand Tools LO3 Pages #12 - os://www.scribd.com/doc/219418979/CHS-Module-2-		
		or even killed if you don with PC's. A. Directions: Below are	can be dangerous, and you or others can be injured of the follow proper safety guidelines when working along some hazardous situations present while working with ecautionary measure you must do to avoid accidents.		



					Street language conservations and high
		Hazardous Situa	tion	Preco	autionary Measure
		You are going to cleat computer. The unit is still to the power source.			
		2. You will tighten the so computer's fan. You c jewelry.			
		3. While troubleshooting your mom served your loss same table where you come to be same table where you come table you come table where you come table where you come table	unch on the		
		4. There was a typhoor PC is beside your open v computer is still plugge extension on the wet flo	window. The ed in to the		
		5. The utility knife that yo cut the wires is rusty and			
					ring with computers. Write mn and the ways to avoid
		Accident	Possible	Cause	How to Avoid It
		1. burned computer	1 0001010		110 % 10 711012 11
		2. foot injury			
		3. electric shock			
		4. hand cuts			
		5. eye injury			
C. Engagement Pakikipagpalihan	1 hour	psychological, or materia and well-being of individ for everyday life, neede aspirations. Photo from: https: On the next activity, you velated to the proper way. B. Directions: On the 1st equipment we use when	Il harm are cauals and the d by individuals and the d by individuals are the distribution of the distribut	Introlled in or community. Juals and color HEB, HEB, HEB, HEB, HEB, HEB, HEB, HEB	ation of safety precautions
			working with	computers	



		Personal Protective Equipment (PPE) Illustration	Importance
D. Assimilation	1 hour	A. Directions: Read and answer th	e following questions. Write your answer on
Paglalapat		a separate sheet. 1.What is Occupational Health an	- · · · · · · · · · · · · · · · · · · ·
		2. Why do we need to observe sat	ety precautions in using tools?
		3. What are the Common Occupe	ational Health and Safety Standards? Give
		at least (5) five.	
			ions for your protection especially that our 19 pandemic. Write it inside a big heart ate sheet.
)
V ACCECCALENT	1.1.	B P	
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or	1 hour	Directions: Write True if the underlined word to make the state	ned word is correct if it is False change the ement correct.
Assessment to be given on Weeks 3 and 6)		1. Always wear g	personal protective equipment (PPE) in
·		accordance with the organization 2. Make sure that the	n's OHS procedures and practices. e pins are <u>re-aligned</u> when connecting a
		cable connector.	
		3. Clean the area be avoid accidents.	fore and after use to ensure <u>sanitation</u> and
			aners or water in electrical equipment.



			5. Make sure you understo	and and <u>dis-ob</u>	ey both legislative and
			personal safety protocols while conduc	cting the follow	ing activities.
			6. Always <u>disconnect</u> a co	omputer from t	he AC power and from
			any powered peripherals while you are	e working on it.	
			7. Always handle electror	nic component	s by a <u>non-conducting</u>
			(non-metallic) edge. Don't touch the p	ins or other co	nnectors.
			8. <u>Never</u> use an anti-st	atic wrist strap	when working on a
			computer (except when working on m	onitors)	
			9. Apron is a garment w	orn over the f	ront of the body as a
			<u>protection</u> for one's cloth.		
			10.PPE can also be used	to protect the	e working environment
			from pesticide application, pollution, o	r infection from	the worker.
VI. REFLECTION			• The learner communicates	•	·
			assessment as indicated in the Learner		
			 The learner, in their notebook, the lesson using the prompts below. 	will write their	personal insignts about
			I understand that		
			I realize that		
			I need to learn more about		
Prepared by:	Ana Jane S. Fo	aylon/Loida \$. Narvaez	Checked by:	Florinda C. Gagasa
•	TLE-ICT-CY9-w				

W4	Learning Area	TLE – Computer System Servicing	Grade Level	9
VV 4	Quarter	3	Date	

***	Quarter	3	Date
I. LESSON TITLE			sing Hand Tools
II. MOST ESSENTIAL LEARNING COMPETENCIES (MELCs)			Naintain hand tools TLE_IACSS9-12UHT-IIId-20
III. CONTENT/CORE CONTENT			1. Do not drop tools to avoid damage; carry out routine maintenance of tools according to standard operational procedures, principles, and techniques. eferences: ead and understand these lessons: EHS Module 2 - Using Hand Tools LO4 Pages #18 - #20 Link: ttps://www.scribd.com/doc/219418979/CHS-Module-2-Using-Hand-Tools am Jack, By and Pam Jack. "How To Care for Hand Tools," October 26, 2020. nk: https://www.charlottestories.com/how-to-care-for-hand-tools/ S Link: https://www.isixsigma.com/tools-templates/5s/practical-approach-uccessful-practice-5s/
IV. LEARNING	PHASES	Suggested Timeframe	Learning Activities
A. Introc Panin		1 hour	Presentation Hand tools such as screwdrivers, wrenches, hammers, pliers, levels, and wire cutters are examples of common household tools that are often left out in places such as basements, garages, and tool sheds. Tools are tough, but they are not indestructible and exposure to the elements can take its toll.

cutters are examples of common household tools that are often left out in places such as basements, garages, and tool sheds. Tools are tough, but they are not indestructible and exposure to the elements can take its toll.
In this lesson you will learn how to maintain the hand tools so that you get optimum use out of them. You will also learn the correct procedures of
A. Write down at least five (5) hand tools that are present in your home and how you take care of it. Do this activity on a separate sheet of paper.

How we maintain it at home

B. Identify which tool maintenance is observed in each picture. You will be guided based on the first letter and number of blanks below the pictures. Write your answer on a separate sheet of paper.



Photo from: https://www.rhs.org.uk/advice/profile?pid=1036

S_____



Photo from: https://www.youtube.com/watch?v=CHTHif5SnSw_

IV. LEARNING PHASES	IV. LEARNING PHASES Suggested Timeframe		Learn	ing Activities	
B. Development Pagpapaunlad	1 hour	CHS Mod	understand these lesson ule 2 - Using Hand w.scribd.com/doc/2194	Tools LO4 Page	
		Link: https:// 5\$ Link: https:// successful-	By and Pam Jack. "How //www.charlottestories.c ttps://www.isixsigma.cor practice-5s/	com/how-to-care-for m/tools-templates/5s	-hand-tools/ s/practical-approach-
	Steel Da		own the safety guideline answer on a separate sh		<u>ce</u> of the hand tools.
8		MAINT	ENANCE	SAFETY GUIDEL	INES
		Cleaning	of tools		
		Sharpenir	ng of tools		
18:16		Lubricatio	on		
		Storing of	tools		
		Inspectio	n of tools		
CLN		separate s 1. Seiri – 2. Seiton –	g your hand tools? Exp heet of paper.		
-		3. Seiso –			
	- 24	4. Seiketsu			
WI THE		5. Shitsuke	- 107		
-			-3/		
C. Engagement Pakikipagpalihan	1 hour & 30 minutes	tools for at	trate how to properly cle least five (5) minutes. Pr t. Video yourself and ser or your parents/guardia	actice safety and us nd your output throug	se personal protective gh google drive.
	- Land	Rubrics:		-	-
		Content	Demonstration accurately shows how to complete a task-all steps are shown and described in detail so that task could be replicated.	7 Demonstration gives overview of how to complete a task but does not give details. Task could be replicated, but with difficulty.	Task demonstration and description are lacking key components. Task could not be replicated with directions given.
		Presentation	Student uses time wisely- is well prepared and well-rehearsed. Student does not use flash cards and needs minimal prompting/scaffolding.	Student is prepared, but not well rehearsed. Students may not use full amount of time. Students needs prompting and flashcards to complete	Student is not prepared or rehearsed. Presentation is not professional, and student needs ample prompting to complete task. Relies heavily on flashcards
		Total:	ous.com/rubricshowc.cfm?code=H9B659&	presentation.	

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities		
	Illinename	B. Practice the 5S in your home particularly in your hand tools st photo of your work. Below is the checklist that you must accom		e a
		5\$ CHECKLIST		
		Area: Date	•	
		S1 - Sort - SEIRI:	√ ×	X
		No unnecessary items are left or stored in the workplace.		
		All tools are in regular use		
		Storage area is defined to store broken, unusable or occasionally used items.		
	De la constitución de la constit	Standards for eliminating unnecessary items exist and are being followed.		
		S2 - Set in order - SEITON:		
		Locations of tools and equipment are clear and well organized.		
		Labels exist to indicate locations, containers, boxes, shelves and stored items.		
1831C	1	Evidence of inventory control exists (i.e. Kanban cards, FIFO,		
	11/1/2	minimum/maximum, etc.) Dividing lines are clearly identified and clean as per standard.		—
		Safety equipment and supplies are clear and in good		
	2.7	condition. \$3 - Shining - SEISO:		
100		Cabinets and shelves are kept clean.		
		Tools are kept clean.		
		Lighting is enough and all lighting is free from dust.		
		Cleaning tools and materials are easily accessible.		
OFFICE III APPLIES	- 6	S4 - Standardize - SEIKETSU:		
	A 11	Information displays, signs, color coding and other markings		
1 N	///	are established.		
		Procedures for maintaining the first three S's are being		
		displayed. S5 – Sustain - SHITSUKE:		
- I I I		5S seems to be the way of life rather than just a routine.		
D. Assimilation Paglalapat	1 hour	 A. Directions. Read and answer the following questions. Write years separate sheet. 1. What are the ways on how to maintain you hand tools proper 2. Why is it important to have proper maintenance of hand tools. Why do you think 5s is important in the workplace? B. Directions. In the graphic organizer below, write down you 	erly? Is?	
80		Proper Maintenance of Hand Tools and The 5s. Write your separate sheet.		

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	Timeframe 30 minutes	A. Directions: Read the questions carefully and choose the letter of the best answer. Write your answer on a separate sheet.
CLI		B. Directions: Fill in the missing letters to complete the words. Use the definition provided as your reference. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 1. It is sorting through all items in a location and removing all unnecessary items from the location. 2. A process that removes unwanted substances, such as dirt, infectious agents and other impurities, from the object or the environment. 1. It is the regulation of friction and wear by applying a friction-reducing film
VI. REFLECTION		4. It places all the requisite things in the best position to perform their duties at the workplace. 5. It is a cross-section between boundary and hydrodynamic lubrication. • The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card. • The learner, in their notebook, will write their personal insights about the lesson using the prompts below. I understand that I realize that I need to learn more about
Prepared by: Ana Jane S. For TLE-ICT-CY9-wa		Checked by: Roger C. Maldia Mary Ann Q. Clanor



\A/ <i>E</i>	Learning Area	TLE – Computer Systems Servicing	Grade Level	9
W5	Quarter	Three	Date	

I. LESSON TITLE	Using Hand Tools
II. MOST ESSENTIAL LEARNING COMPETENCIES (MELCs)	Maintain hand tools TLE_IACSS9-12UHT-IIId-20
III. CONTENT/CORE CONTENT	4.2 Store tools safely in appropriate locations in accordance with manufacturer's specifications or standard operating procedures
	References: TLE – Computer System Servicing 9 Module from Division of Pasig City Quarter 3 – Module 7: Proper Storing of hand tools/instruments, First Edition, 2020 Common Types of Toolboxes
	https://www.homestratosphere.com/types-of-tool-boxes/

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
A. Introduction Panimula	30 minutes	Presentation To sustain your hand tools and keep them in good condition for years to come, you should take the proper steps to make sure the metal tools maintain their durability and do not accumulate rust. Where and how you store your tools can make all the difference. In this lesson, you will learn the proper ways to store your hand tools to ensure the safety and maintain its good condition.
	ИI	A. Can you spot the five (5) differences between the two images? The full-sized Spot the Difference images may be viewed by clicking on the web link: https://www.pinterest.ph/pin/608548968382878346/ . Write your answer on a separate sheet.
		Hannal Ha
		Five (5) differences: 1 2 3 4 5 Do you think these tools were properly stored? Why?
B. Development Pagpapaunlad	1 hour & 30 minutes	Read and understand the CSS 9 - Module 7 Proper Storing of Hand Tools and Common Types of Toolboxes through these links: http://bit.lv/3kVpuxN &
		https://www.homestratosphere.com/types-of-tool-boxes/ and do the activities below in a separate sheet.

IV. LEARNING PHASES	Suggested Timeframe		Learning Activities	
		A. Below are the different feature of each storage.	t hand tool storages, des	cribe it and tell the best
			Danada Kan	Doub Foods
		Storage Power Tool Storage	Description	Best Feature
		Rack Power Tool Storage		
		Cabinet		
		Hanging Tools or Use Tool Storage Drawers		
and the second	Da	Portable Toolboxes		
5-27		Stationary Toolboxes		
		Photo from: https://www.conrad.com/p/knipex-robust- Hand Tools 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. C. How do we keep tools 1. 2. 3. 4. 5.	in good working condition	e tool should be placed. mpty-1674876 tion during storage?

IV. LEARNING PHASES	Suggested Timeframe					
C. Engagement Pakikipagpalihai	1 hour	A. Do you have hand tools in your home? Locate its storage and make some observations. Use below checklist to tell if your family is practicing the proper way of storing tools. Do this activity in a separate sheet.				
		Hand Tool Storage Checklist				
			Yes	No	N/A	
		The storage cabinet has a label.				
		Tools were stored near the point of use.				
		Tools were washed and dry properly before storing.				
		Knives are properly stored with sharp edge down.				
		Frequently used items are in conveniently accessible locations.				
		Storing area are clean, dry, and not overcrowded.				
		There is designated place for each kind of tools.				
THE REAL PROPERTY.		B. Visit the nearest computer technician in your co interview and look at his/her hand tool storage. Bring th previous activity fill it up based on the condition of the sto in a separate sheet. Guide Questions for the Interview.	e chec	cklist fr	om the	
		1. What are the common tools that you use as a comput	er tech	nniciar	JŞ	
7 1700 747						
	VII	What kind of hand tool storage do you have? Why of your storage? ———————————————————————————————————	ala you		 	
		3. What are the best practices you do to keep your tools condition?	in a go	ood		
-		4.57				
		4. How do you maintain your tool storage area?				
		10/				
		5. How proper storage of hand tools help you save time, doing your work?	money	, and e	effort in	
9						
D. Assimilation Paglalapat	1 hour	A. Directions. Read and answer the following questions o	n a sep	oarate	sheet.	
		What are ways on how to store your hand and power in the store your hand and your hand you	tools?			
		2. Why it is important to keep your tools in good worki storage?	ng cor	ndition	during	

IV. LEARNING PHASES	Suggested Timeframe	Learning /	Activities	
		B. Direction. In the graphic organizer proper storing of hand tools. proper storing of hand tools		down your learnings in
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	1 hour	A. Directions: Read the statements of described. Write your answer on a seption of the statements of described. Write your answer on a seption of the statements of the statem	arate sheet. It storing powe ean and organ struments off the opposite of toolbox	r tools and other hand nized. ne floor and organized. and consist of pull-out
		B. Directions. Write True if the underline the underlined word to make the state separate sheet. 6. Put the tools on the gro7. Check for damage or f8. A power tool storage ro power tools organized if you are in a cr	ment correct. ' und directly for laws as you do ack is a smart so unch for space	Write your answer on a r storage. your cleaning. blution for keeping your
51		if you put an instrument in its storage local as possible from vibration and movem vibration is an issue.	cation. uments stored	in a place as far away
VI. REFLECTION		The learner communicates assessment as indicated in the The learner, in their notebook, the lesson using the prompts be I understand that I realize that I need to learn more about	Learner's Assessible will write their pelow.	ssment Card.
Prepared by: Ana Jane S. F TLE-ICT-CY9-w			Checked by:	Roger C. Maldia Mary Ann Q. Clanor

VAL 4	Learning Area	TLE – ICT	Grade Level	9
W6	Quarter	Third	Date	

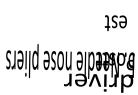
I. LESSON TITLE	Terminating and connecting electrical wiring and electronics circuit (tcew)
II. MOST ESSENTIAL LEARNING	Plan and prepare for termination/ connection of electrical wiring/ electronics
COMPETENCIES (MELCs)	circuits-TLE_IACSS9-12TCEW-IIIe-F-21
III. CONTENT/CORE CONTENT	1.1 Check materials according to specifications and tasks.
	References: "CHS Module 8" TERMINATING AND CONNECTING ELECTRICAL WIRING AND ELECTRONICS CIRCUIT (TCEW) Accessed August 19, 2020. Learning Outcome 3 - Pages #8 - #13. First edition, 2020. https://www.youtube.com/watch?v=LG9sMS7M4TY https://kapitolyohs.files.wordpress.com/2011/06/terminating-and-connecting-of-electrical-wirings-and-electronics-circuits-2nd.pdf

IV. LEARNING PHASES	Suggested Timeframe		Learnin	g Activities		
A. Introduction Panimula	30 minutes					
		A. Directions, iv	Symbol Symbol M M M O O O O O O O O O O	Component	Turiswer inside me box.	
		B. Directions: R best answer number. A. cable	ead the question . Write your answe _1. A single slende B. current _2. A wire that is s B. conductor _3. It is one that o	er on the space per rod or filament C. wire	noose the letter of the rovided before each of drawn metal. D. voltage of an electrical current. D. voltage power gain	

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
		4. These are components capable of regulating voltages or currents that can produce a circuit switching operation. A. active devices B. fuse C. passive devices. D. switch5. These are used in Alternating Current circuits to oppose changes in the existing current.
C. Development Pagpapaunlad	1 hour & 30 minutes	A. capacitors B. diodes C. inductors D.resistor Read and understand Information Sheet TERMINATING AND CONNECTING ELECTRICAL WIRING AND ELECTRONICS CIRCUIT (TCEW). For Additional info, you can watch Types of wires and cable by clicking this link, https://www.youtube.com/watch?v=LG9sMS7M4TY Learning Activity 1. Identity Me! Directions: Identify the word/words being describe by the statement. 1. It is a single slender rod or filament of drawn metal. 2. A wire that is sufficient for holding an electrical current. 3. It is a single conductor that is either bare or insulated.
		4. It has two or more conductors that are insulated from each other. 5. A wire composed of many thin strands of wires twisted together. Learning Activity 2. "Let Me guess" Directions: Classify the following electronic components whether it is Passive Device or Active Device. Write your answer on the space provided. 1. DIODES 2. ITANSISTORS DIODES A. INTEGRATED CIRCLES DIODES DIODES A. INTEGRATED CIRCLES DIODES DIODES
		Images retrieved from: https://kgpitolyohs.files.wordpress.com/2011/06/te rminating-and-connecting-of-electrical-wirings- and-electronics-circuits-2nd.pdf

IV. LEARNING PHASES Suggested Timeframe		Learning Activities			
D. Engagement Pakikipagpaliha	1 hour			x by arranging the scrambled letters. 5PTS. EACH)	
		LIDO	S REIW	Material: Uses:	
		STED WIT IRAI		Material: Uses:	
TO BE				Material: Uses:	
0		MLTIU CNOC	CUDROT CALEB	Material: Uses:	
	Л			ess.com/2011/06/terminating-and-connecting-	
	VII		4. Draw and Tell Me! the circuit symbol Circuit Symbol	and write the function of each Function of Component	
		Wires joined Wire			
4	0.11	Wires not joined	P'		
E Accimilation	1 hour				
E. Assimilation Paglalapat	1 hour	What are the and explain a b c.	nd answer the given quie different types of ele	uestions: ectrical wires? Give some examples	

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
V. ASSESSMENT (Learning Activity Sheets for Enrichment,	1 hour	Let us see how much you have learned. Directions: Match column A with that of column B. Write only the letter of the correct answer on the line provided before each number.
Remediation or Assessment to be given on Weeks 3 and 6)		1. It two or more conductors that a. Switch are insulated from each other.
		2. These are components capable b. Multi-conductor cable of regulating voltages or currents that can produce a circuit switching operation.
	8	3. It is a mechanism used to break electrical current to another conductor.
		4. It is a single conductor that is either d. Stranded Wire bare or insulated.
The said	9	5. It is composed of many thin strands of e. Solid Wire wires twisted together and used where flexibility is important because the wire can be used for a longer period.
VI. REFLECTION		 The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card. The learner, in their notebook, will write their personal insights about the lesson using the prompts below. I understand that I realize that I need to learn more about
Prepared by: Jelly Ann O	. Redondo	Checked by: Roger C. Maldia Mary Ann Q. Clanor



W7	Learning Area	TLE – ICT	Grade Level	9
	Quarter	3	Date	

I. LESSON TITLE	Terminating and connecting electrical wiring and electronics circuit
	(tcew)
II. MOST ESSENTIAL LEARNING	Plan and prepare for termination/ connection of electrical wiring/
COMPETENCIES (MELCs)	electronics circuits-TLE_IACSS9-12TCEW-IIIe-F-21
III. CONTENT/CORE CONTENT	1.2 Select appropriate tools and equipment according to task
	requirements.
	Task requirements
	- Splicing
	- Jointing
	- Soldering
	Tools and equipment
	- Pliers
	- Cutters
	- Screw driver
	- Soldering gun
	- Multitester
	References:
	"SLM CHS 9 "Common Wire Splices and Joints" p. 7-12 & 10 "Tools and
	Equipment" p. 7-10. Accessed August 19, 2020.
	100

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
A. Introduction Panimula	30 minutes	Presentation As a student you should acquire the important knowledge and skills in wire splices and joints and should be familiar with the actual application of every splice and joint. This will serve as your tool in performing actual wiring installation.
		A. Directions: Guess the missing letter to form a word/s. Write your answer on a space provided.
		A. joining B. splicing C. soldering D. welding 4. This is used extensively for outside wiring to extend the length of wire from one end to another.

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
		A. knotted tap B. plain tap joint D. western Union Long-tie Splice 5. This is a two-tap wire turned simultaneously and is used where the two-tap wire is under heavy tensile stress. A. cross joint C. knotted tap B. duplex cross joint D. plain tap joint
true and F if the st1. This is use for wires, cables and2. Cutting, grip		Directions: Read each statement carefully. Write T if the statement is true and F if the statement is false. 1. This is use for holding, gripping, cutting, bending, and splicing wires, cables and even small nails it is known as the linesman pliers. 2. Cutting, gripping and holding wires are the main functions of cutters.
THE NO		3. Screw drivers is used for tighten and loosen the screws4. Desoldering tool functions is to join the two metals together by melting it5. Multitester this is use to check the integrity of the circuits and the quality of electricity in other components of computer.
C. Development Pagpapaunlad	1 hour & 30 minutes	Read and understand Information Sheet "Common Wire Splices and Joints" & Tools and Equipment"
7 10		Learning Activity 1. Catch Me, Who Am I? Directions: Identify the following common splices and joints whether it is Splice or Joint. Write your answer on the space provided.
CLN	/ [
		2.
O IV.	TO	3.
		4.
		5.
		Learning Activity 2. Where Do I Belong?
		Directions: Complete the table by classifying the following task requirement. Choose your answer from the box below.

IV. LEARNING PHASES	Suggested Timeframe	Learning A	Activities
			Duplex cross Straight at Tail Plain tap /estern Union Long-tie
		SPLICING 1. 2.	JOINTING 6. 7.
	220	3. 4. 5.	8. 9. 10.
D. Engagement Pakikipagpalihan	1 hour	The tools are devices that are hand task. It is not consumable. On the oconsidered as any machine power	ther hand, equipment can be
		Learning Activity 4. "Name me in" Directions: Name the following tool	ls and equipment.
		Learning Activity 5. "Real Connection	4. 5
JLI	/	Directions: Name 5 tools and equip house and write their functions inside	ment that you have in your
		TOOLS	
1.20		EQUIPM	IENT
E. Assimilation Paglalapat	1 hour	Learning Activity 5. "Things to Cons Directions: List down tools, equipme describe its functions or use.	
		Tools/Equipment	Function/Use
		Learning Activity 6. "You can fix me Directions: Arrange the Steps in spli	

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
		1. Place the two ends of bare wire in crossed position2. Then, twist the bare conductors about five to seven times3. Strip the wire insulator at the ends of the conductor to be joined at about 50 mm. Clean both wires to be joined.
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	1 hour	Directions: Fill in the missing letters to complete the words. Use the definition provided as your reference. O D 1. A metal alloy material that is melted to create a permanent bond between electrical parts. ER LA
CLN		 This is used as a temporary tap usually done in constructions sites. The easy twist will facilitate tap wire movement.
		Directions: State whether the following is a tool or equipment. Write your answer on the blank before each number.
VI. REFLECTION		The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card. The learner, in their notebook, will write their personal insights about the lesson using the prompts below. I understand that I realize that I need to learn more about

Prepared by: Jelly Ann O. Redondo	Checked by: Roger C. Maldia
	Mary Ann Q. Clanor

WA	Learning Area	TLE – ICT	Grade Level	9
VVO	Quarter	Third	Date	

I. LESSON TITLE	Lesson 6: Terminating and connecting electrical wiring and electronics circuit (tcew)
II. MOST ESSENTIAL LEARNING COMPETENCIES (MELCs)	LO 2: Terminate/connect electrical wiring/ electronic circuits. TLE_IACSS9-12TCEW-IIIg-i-22
III. CONTENT/CORE CONTENT	 Prepare electrical wiring/electronics circuits correctly for connecting/terminating in accordance with instruction and work site procedures. Electrical wiring diagram Electronics kit 2.3 Use appropriate range of methods in termination/connection in accordance to specifications, manufacturer's requirements, and safety 2.5 Adjust used accessories 6 Confirm termination/connection in accordance with job specification References: "SLM CSS 9-M14,M15" Accessed August 19, 2020.

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
A. Introduction Panimula	30 minutes	Presentation A wiring diagram is a simplified conventional pictorial representation of an electrical circuit. It shows the components of the circuit as simplified shapes, and the power and signal connections between the devices. A. Directions: Observe the picture below. Answer the guide questions. Image retrieved from: https://www.storyboardthat.com/lesson-plans/electrical-circuits Guide Questions: 1. What can you say about the picture being shown? 2. What are the different electrical symbols are familiar to you? 3. Why do you think that these symbols are important in wiring diagram?
B. Development Pagpapaunlad	1 hour & 30 minutes	Read and understand Information Sheet about Terminate/connect electrical wiring/ electronic circuits. Learning Activity 1. Matchy matchy! Directions: Match the picture in column A with the description in column B. Write your answer on a space provided. Column A Column B 1. 110V Source 110V

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
IV. LEARNING PHASES	Timeframe	Learning Activities 3.
C. Engagement Pakikipagpalihan	1 hour	5. This joins two or more electronic parts like wires or circuit boards together by melting solder to the connection. The wire termination is the work performed to the end of a wire that allows it to connect to a device such as connector, switch, terminals and others. Hence, electrical connection allows electricity to flow through the wire which transmit electricity. A cable with specialized ends runs between two connectors; these are the ends that interlock with the ends on a compatible cables and wires to allow transfer of power. Learning Activity 3: "C vs. PC vs. PAS Directions: Determine the methods of termination and connection. Write C if the methods are clamping, PC for pin connector, and PAS for plug and socket.

KS3

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities
D. Assimilation Paglalapat	1 hour	Learning Task 5: Fill Me In: Directions: Read the sentences carefully. Fill in the blanks with the correct answer to complete the statement. 1. Clip off wire ends about

IV. LEARNING PHASES	Suggested Timeframe	Learning Activities	
V. ASSESSMENT (Learning Activity Sheets for Enrichment, Remediation or Assessment to be given on Weeks 3 and 6)	1 hour	Directions: Modified True or False. Write TRUE if the statement is correct. If FALSE, change the underlined word/s to make the statement correct.	
	9	1. It refers to thorough check up of the electrical connections and wiring installed2. Check all the possible norms and procedures to follow while installing different wires and cables3. This protects the electrical circuits that	c. Electrical inspection
7 400		needs to check regularly4. It is the cause of break through fire5. Needs to check in inspection every 2 to 3 years.	d. Research e. Circuit breaker
VI. REFLECTION		The learner communicates the explanation of their personal assessment as indicated in the Learner's Assessment Card. The learner, in their notebook, will write their personal insights about the lesson using the prompts below. I understand that I realize that I need to learn more about	

Prepared by: Jelly Ann O. Redondo	Checked by:	Roger C. Maldia
		Mary Ann Q. Clanor