COMPUTER OPERATOR



TRAINER GUIDE

National Vocational Certificate Level 2

Version 1 - July 2013





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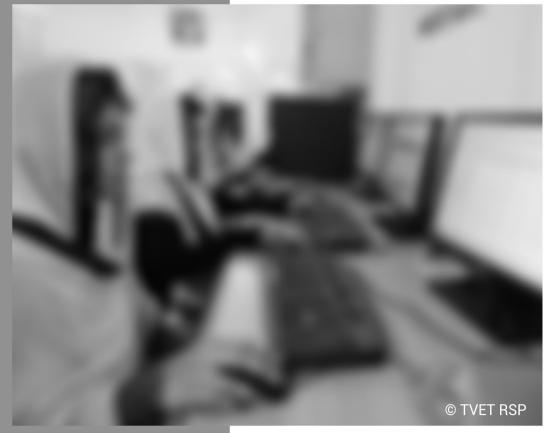
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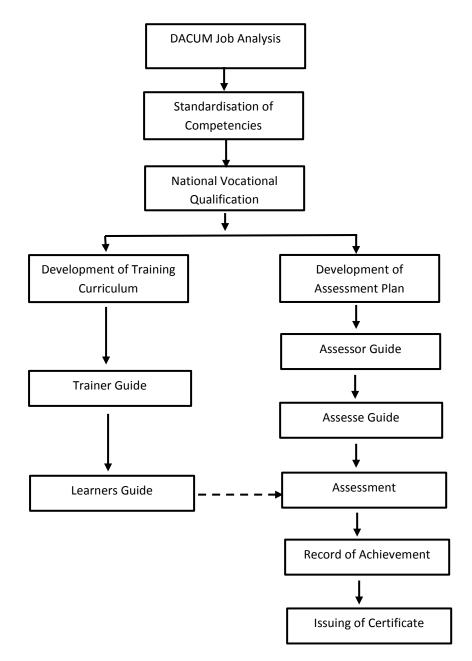
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INTRODUCTION

This Guide supports the Competency-Based Training Curricula that will enable the trainees to achieve the competency standards that have been set by the relevant industry group.

The NVQF Competency-Based Training Curricula along with the associated Training Guides and the Assessment Guides are all developed from the skill competency standards established by the Industry Advisory Group (IAG).

Figure 1 outlines the process of developing the competencies, developing the curriculum and the assessment requirements, and delivering the training program and the assessments necessary to certify achievement of the competencies.



The Trainer Guide provides guidelines and instructions to Trainers on the approaches that are required and on the organisation and delivery of the curriculum training program.

Curriculum

The Curriculum Manual is included in the Training and Learning Materials Package.

The curriculum is organised as a series of modules. Each module is broken down into a series of Learning Units. Each Learning Unit includes Learning Outcomes, Learning Elements, an estimate of the time needed, a list of materials required and the location for the learning to take place.

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials needed	Location

Lesson Plans

The Trainer will need to develop a coherent set of lesson plans for each module of the curriculum. This Guide includes a Lesson Plan Template. The Lesson Plans must be filed for later review if necessary.

Assessment

It is necessary to assess the knowledge and skills of the trainees at the completion of each module. (See the Assessment Guide for further details)

Evaluation of Training Material

Trainers are invited to evaluate the Training Materials based on their experience of delivering the training. A template is provided to assist.

EVALUATION OF TRAINING MATERIAL

The trainers/instructors who implement this training material can inform NAVTTC promptly of any shortcomings in training material on the following format. Please consider it as one of your responsibilities.

Format

Training Material	Module Title & Module Code	Learning Unit Title & Learning Unit Code	Suggested amendments/ feedback/proposal
Trainer Guide			
Learner Guide			
		Training Centre:	
Trainer Name:		Training Centre.	

GUIDELINES FOR WRITING LESSON PLAN

The template for lesson plan has been provided at next page. These guidelines are for trainers for writing their own lesson plans which are as follows:

- 1. Introduce yourself and the Learning Unit, and state the Learning Outcomes of the session clearly to activate attention of learners.
- 2. In **Introduction** part of lesson plan state the Learning Objectives of the lesson. This allows the learners to organize their thoughts on what they will learn and to perform. Also state some questions to recall prior knowledge of learners to arouse their interest and motivation.
- 3. In **Body** part of lesson plan present the new information or material that is to be learned. Demonstration of a skill relevant with the Learning Unit is also stated here. Also mention the teaching and learning methods for each leaning element from *Trainer Guidelines*, the relevant media including handouts, power-point slides, videos, white board and time duration for each activity in the relevant columns.
- 4. In **Conclusion** part list the strategies used for summarizing and reviewing the lesson delivered. Also mention the strategies for formative assessment to ensure that the transfer of knowledge and skill has been achieved.

LESSON PLANS

Dear Instructors,

Model Lesson Plans for one module have been provided in this trainer guide. A format and guidelines for writing Lesson Plans have also been provided in the succeeding pages. You are advised to prepare your own lesson plans for the remaining Learning Units using the suggested format and guidelines.

	LESSON PLAN -1		
Module-1	Maintain Computer System		
Learning Unit-1	Install Operating System		
Learning Outcome After the end of the	s e session the learner will be able to:		
• Posomo fom	ilier with basic parts of computer		
	iliar with basic parts of computer		
2	difference between hardware and software.		
	ating system and windows		
 Necessary p 	recautions have been taken before installing any op	perating syster	n
 Install operation 	ting system in the PC/ computers by following instru	ictional manua	al.
Methods	Key Notes	Media	Time
1 ((Introduction	O a manufacture de	4.11.00
Lecture/	Introduction of learning unit.	Computer/	1-Hour
Presentation/	Motivate the learner for active participation in activity.	laptop	
Demonstration	Inform them about Learning Objectives:	Multimedia	
	Knowledge about the basic parts of computer	Projector	
	Difference between hardware and software		
	Necessary precautions before installing any		
	operating system		
	Main Body	1	
Exposition	Brief Learner about basic parts of computer i.e. hardware and software.	Computer/ Laptop/	3½- hrs.
Presentation	Describe different operating system and differentiate one from other.	Multimedia Projector	
Demonstration	Explain necessary precautions like securing data, RAM size, size of Operating Windows, compatibility etc.	Instructional Manual	
		50/	25- hrs
Practice Session	Ask the learners to install window-2007	PC/Laptop CD ROM CD's	25-115
	Guide them if any problem occur during activity	Instructional Manual USB	
	Conclusion		
Question and Answer	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students.		30- Mintues
Summery/Wrap up	Summarize the lesson by reviewing important facts and details.		
		Total time:	30 hrs
			55.10

	LESSON PLAN - 2		
Module-1	Maintain Computer System		
Learning Unit- 2	Configure peripheral devices		
Define most	s e session the learner will be able to: commonly used peripheral devices I the working and uses of various peripheral devices	S	
Use different	computer communication ports		
Configure pe	ripheral devices, as per given instructions in their re	espective man	uals
Methods	Key Notes	Media	Time
	Introduction		
Preamble/	 Introduce the learning unit 	Learner's	1hr.
preliminary	- Report objectives	guidelines,	
	- Motivate learners about the topic and its	handbook,	
	importance	Whiteboard	
		multimedia	
	Main Body	I	
Exposition	- Explain most commonly used input and output	Computer	1½-hr.
	peripheral devices: keyboard, mouse, printer,	system	
	USB camera etc.	-	
	- Illustrate operation and application of	CD ROM	
	commonly used peripheral devices and	CD's	
	communication ports like eStata, S- Video,	Scanner	
	Display Port etc.	Printer	
		Keyboard	
Demonstration/Lab	- Exemplify use of commonly used peripheral	Mouse	
	devices and communication ports, and	Webcam	
	different tasks executed with help of these	Other	
	devices and ports.	peripheral	
		devices with	
		respective	
		manuals	
		Computers	
		for students	
		Laptop for	
		trainer	
		trainer Multimedia	

		Marker	
		Whiteboard	
		Duster	
		UPS	
Group Activity	 Assign task to learners to demonstrate setting up of commonly used peripheral devices employing communication ports and experience their operation. 		7½hrs.
	Conclusion		
Question/ Answer session	Conduct Question/ Answers session to ensure learners' acquisition of relevant knowledge.		1hr.
Wrap Up	Restate important points of the lesson.		
		Total time:	12 hrs.

LESSON PLAN - 3		
Module-1	Maintain Computer System	
Learning Unit-3	Install Peripheral Devices	
Learning Outcom		

Learning Outcomes:

- Ensure necessary precautions before installing any peripheral devices.
- Install any peripheral device as per instruction manual.
- Pass functional test for the same peripheral device.

Methods	Key Notes	Media	Time
	Introduction		
Preamble	Introduce the learning unit	Computer	30mins.
/preliminary/	Motivate learners about the topic and its importance	Multimedia	
Lecture	Report objectives to learners:	Projector	
	 Knowledge of necessary precautions for 	Whiteboard	
	installing any peripheral devices	Duster	
	- Follow instruction manual while installing any		
	peripheral device		
	- Perform functional test for the same peripheral		
	device		
	Main Body		
Exposition/	- Explain why it is necessary to be cautious and	Computer/	2½hrs.
Presentation/	follow instruction manual while installing most	Laptop	
Discussion	commonly used peripheral devices		
Discussion Demonstration/Lab	 commonly used peripheral devices Elucidate cautions as per instruction manual to install most commonly used peripheral devices per instruction manual Illustrate the required steps for installation of various peripheral devices. Exemplify installation of most commonly used peripheral devices such as CD ROM, USB, Printer, Scanner, Key Board, Mouse, Web CAM etc. Test the newly installed peripheral device practically for example test print, use of mouse, Key Board etc 	CD ROM CD's Scanner Printer Keyboard Mouse Webcam Peripheral devices with respective manuals Marker White Board Duster Multimedia Projector UPS	

Individual Practice	Assign task to learners to practically experience			
Session	installation of commonly used peripheral devices			
	applying necessary precautions and carry out a			
	functional test to assess the success of learning.			
	Conclusion			
Question/ Answer session	Conduct Question/ Answers session to ensure learners' acquisition of relevant knowledge.		1hr.	
Wrap Up	Restate important points of the lesson.			
	· · · · · · · · · · · · · · · · · · ·	Total time:	10 hr.	

LESSON PLAN - 4			
Module-1	Maintain Computer System		
Learning Unit-4	Install Software Application		
Ensure necesRegister soft	ifferent software applications. ssary precautions before installing any software applicat ware with the help of key		
Carefully inst Methods	all a software application as per given instructional manu Key Notes	Ial. Media	Time
Methods	Introduction	Ivieula	Time
Preamble/	Introduce the learning unit		1hr.
preliminary	Motivate learners about the topic and its importance Report learning objectives to learners:		
	 Practice installing variety of software applications such as MS Word, Excel, PowerPoint, Access, Publisher etc. 		
	 State utility of variety of software Take precautions while installing a software 		
	- Install software		
/	Main Body		
Exposition/ Presentation/ Discussion Demonstration/Lab	 Elaborate types of software. Discuss precautionary measures and their significance. Explain function of various software applications. Show practically how to install a software application as per instructional manual while applying the relevant precautions. Complete the process with registering the software with the help of key. 	Computer system CD ROM CD's of software like MS Word, Excel, PowerPoint , Access, Publisher etc. Marker White Board Duster Multimedia Projector UPS USB(for installation)	11⁄₂hrs. 17½ hrs
mumuuai Fidülüe	 Assign task to learners to practically experience installation of software application as per instructional manual while applying the relevant precautions. Complete the process with registering the software with the help of key. Guide the learners whenever encounter any problem during practice. 	Computer system CD ROM CD's of software like MS Word, Excel, PowerPoint , Access,	1 <i>1 /</i> 2 NTS

		Publisher etc. Marker White Board Duster Multimedia Projector UPS USB(for installation)	
	Conclusion		
Question/ Answer session	Conduct Question/ Answers session to ensure learners' acquisition of relevant knowledge.		⅓hr.
Wrap Up	Reinforce important points of the lesson.		
	·	Total time:	

	LESSON PLAN - 5		
Module-1	Maintain Computer System		
Learning Unit-5	Update/ Upgrade Software Application		
Learning Onites Opdate/ Opgrade Software Application Learning Outcomes Check the registration of the application Use the instructional manual for updating/upgrading software applications Update/upgrade software application with the help of CD or Online available software Ensure coordination of updated features with specifications / requirements			
Methods	Key Notes	Media	Time
	Introduction	-	
Preamble	Introduce the learning unit		30mins
/preliminary/	Motivate learners about the topic and its importance		
Lecture	Report learners about Learning Objectives:		
	Knowledge of various versions of software		
	application		
	Follow relevant precautions while updating/		
	upgrading software applications		
	 Employ various techniques to update/ 		
	upgrade different versions of software		
	Main Body	I	
Exposition/	Familiarize learner with different versions of software	Compute	9hrs
Presentation	applications	r system CD ROM	
	Discuss application of relevant precautions while updating/ upgrading software like legal, not a spam etc.	CD's Internet Facilities	
	Explain some of the online applications Show case up gradation of software through CDs	Instructional Manual	
Demonstration/Lab	Carry out manual procedures for updating / upgrading software and where necessary employ automatic update.	Marker White Board Duster Multimedia	
	Ensure suitability of updated features with relation to specifications / requirements.	Projector UPS	
Individual Practice	Assign task to learners to practice:		
	- Manual procedures for updating /		
	upgrading software and where		
	necessary automatic update.		
	- Up gradation through CDs		
	- Online applications		
	Instruct them to ensure relevant precautions		
	during the process and maintain suitability of		

	updated features with relation to specifications / requirements.		
	Conclusion		
Question/ Answer session	Conduct Question/ Answers session to ensure learners' acquisition of relevant knowledge.		30mins.
Wrap Up	Reinforce important points of the lesson.		
		Total time:	10hrs.

LESSON PLAN - 6				
Module-1	Maintain Computer System			
Learning Unit-6	Perform un-installation of software			
After the end of the • Know about • Demonstrate	 Learning Outcomes After the end of the session the learner will be able to: Know about necessary precautions before uninstalling software application. Demonstrate to uninstall software application through control panel. Demonstrate the impact on the memory space after uninstalling. 			
Methods	Key Notes	Media	Time	
	Introduction			
Lecture/	Introduction of learning unit.	PC/laptop	1-hr	
Presentation/	Motivate the learner for active participation in activity.	Multimedia		
	Inform them about Learning Objectives:	Projector		
	Knowledge about uninstalling application	Whiteboard		
	software through control panel	Marker		
	Demonstrate the impact on the memory	Duster		
	space of PC			
	Main Body			
Exposition/Lecture Presentation/ Demonstration	Explain Learner about necessary precaution before uninstalling system software. Describe/demonstrate uninstalling system software Demonstrate the impact on the memory space after uninstalling	PC/laptop Multimedia Projector	1-hr	
Practice Session	Ask the learner to uninstall any software application		7½ hrs.	
	through control panel and demonstrate its impact on			
	memory space.			
	Guide them if any problem occur during activity			
	Conclusion	<u> </u>		
Question and Answer	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students.		30- Mintues	
Summery/Wrap up	Summarize the lesson by reviewing important facts and details.			
		Total time:	10 hrs.	

	LESSON PLAN - 7		
Module-1	Maintain Computer System		
Learning Unit-7	Perform Window Scan		
Know aboutDemonstrat	es e session the learner will be able to: necessary precautions before performing window s e to scan any infected system to detect the viruses. te to delete all infected files without losing any active		
Methods	Key Notes	Media	Time
	Introduction		
	Introduction of learning unit.	PC/laptop	½-hr
Lecture/	Motivate the learner for active participation in activity.	Multimedia	
Presentation	Inform them about Learning Objectives:	Projector	
	Knowledge about types of viruses and	Whiteboard	
	spams	Marker	
	Inform about registered scanning software	Duster	
	Demonstrate the process of scanning		
	windows and deleting infected files.		
	Main Body		
Exposition/Lecture	State necessary precaution before window	PC/laptop	½-hr
-	scanning.	Multimedia	
Presentation/	Describe/demonstrate performing scanning and detecting virus with any registered antivirus.	Projector	
Demonstration	Demonstrate to delete infected files		
		PC	4½ hrs.
Practice Session	Ask the learner to perform scanning, detect infected system files, and delete all infected data.	CD ROM CD's	
	Guide them if any problem occur during activity	USB	
		UPS	
	Conclusion	<u> </u>	
			½-hr
Question and Answer	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students.		
Summery/ Wrap up	Summarize the lesson by reviewing important facts and details.		
		Total time:	6-hrs

	LESSON PLAN - 8			
Module-1	Maintain Computer System			
Learning Unit-8	Format External Mass Storage			
After the end of the • Know about • Demonstrate	 Learning Outcomes After the end of the session the learner will be able to: Know about necessary precautions before formatting any external mass storage. Demonstrate to format external mass storage like USB. Demonstrate the clean formatted mass storage device through various formatting 			
Methods	Key Notes	Media	Time	
moundad	Introduction	modia	11110	
	Introduction of learning unit.	PC/laptop	1-hr	
Lecture/	Motivate the learner for active participation in activity.	Multimedia		
Presentation	Inform them about Learning Objectives:	Projector		
	Knowledge about some examples of mass	Whiteboard		
	storage as USB, CD, Memory Card etc.	Marker		
	Knowledge about precautions of formatting	Duster		
	external mass storage like back-up data,			
	archive etc.			
	Demonstrate various formatting processes.			
	Main Body			
Exposition/ Lecture	Explain necessary precautions before formatting	PC/laptop	½-hr	
Discussion	external mass storage e.g. back-up, data security etc.	Multimedia Projector Whiteboard		
Presentation/	Describe/demonstrate formatting on any one mass storage device like USB, CD, memory card etc.	Marker duster		
Demonstration	Demonstrate formatted/clear mass storage device.			
	Divide the learners into groups	PC	4½ hrs.	
Practice Session /	Ask them to choose any one mass storage device from USB, CD, memory card etc.	CD ROM CD's		
Group Activity	Format it according to demonstrated process	USB		
	Demonstrate the clear/formatted device.	UPS		
	Guide them if any problem occur during activity			
	Conclusion			
Question and Answer	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students.		½-hr	
Summery/ Wrap up	Summarize the lesson by reviewing important facts and details.			
	1	Total time:	6- hrs.	

	LESSON PLAN - 9			
Module-1	Maintain Computer System			
Learning Unit-9	Trouble-shoot basic software errors.			
Learning Outcomes After the end of the session the learner will be able to: • Select the right troubleshooting software. • Troubleshoot problems of corrupted software. • Remove the errors from the PC/computer.				
Methods	Key Notes	Media	Time	
	Introduction			
	Introduction of learning unit.	PC/laptop	½-hr	
Lecture/	Motivate the learner for active participation in activity.	Multimedia		
Presentation	Inform them about Learning Objectives:	Projector		
Tresentation	Knowledge about trouble-shoot software like	Whiteboard		
	window scan, Window optimizer, Compress	Marker		
	 Disk etc. Knowledge about general software errors including computer bug, path/track corruption, its damage etc. Demonstrate/apply precautions for trouble shooting errors, system and structural testing etc. 	Duster		
	Main Body	,		
Exposition/ Lecture Presentation/ Demonstration	Explain trouble shooting software, and trouble- shooting problems of corrupted software. Describe/demonstrate removing errors encountered.	PC/laptop Multimedia Projector Whiteboard Marker duster	1-hr	
Practice Session	Ask the learners to perform troubleshooting through troubleshoot software Guide them if any problem occur during activity	Computer system CD ROM CD's Internet facility UPS	4 hrs.	
	Conclusion	•		
Question and Answer Summery/ Wrap up	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students. Summarize the lesson by reviewing important facts and details.		⅓-hr	
	1	Total time:	6-hrs	

LESSON PLAN - 10					
Module-1	Maintain Computer System				
Learning Unit-10	Troubleshoot basic hardware faults				
After the end of th Know about Apply the pr Understand Execute the Ensure error	Learning Outcomes After the end of the session the learner will be able to: • Know about basic hardware faults • Apply the precautions for troubleshooting error • Understand and demonstrate types of hardware troubleshooting • Execute the hardware troubleshooting • Ensure error free hardware				
Methods	Key Notes	Media	Time		
	Introduction	PC/laptop	½-hr		
Lecture/	Motivate the learner for active participation in activity.	Multimedia	72-111		
Presentation	 Inform them about Learning Objectives: Knowledge about hardware faults. Understand hardware troubleshooting 	Projector Whiteboard Marker			
	Execution of hardware troubleshooting by keeping in mind precautions.	Duster			
	Main Body				
Exposition Discussion Presentation/ Demonstration	Explain basic hardware faults Discuss hardware troubleshooting and its precaution Describe/demonstrate Execute hardware troubleshooting and identify solution.	PC/laptop Multimedia Projector Whiteboard Marker duster	1-hr		
Practice Session	Ask the learners to perform hardware troubleshooting. Guide them if any problem occur during activity	Computer system CD ROM CD's Internet facility UPS	4 hrs.		
	Conclusion				
Question and Answer Summery/ Wrap up	Ask question to ensure comprehension in learners. Explain if anything is ambiguous for students. Summarize the lesson by reviewing important facts and details.		⅓-hr		
		Total time:	6- hrs.		

LESSON PLAN -11			
Module-1	Maintain Computer System		
Learning Unit-11	Configure basic internet connectivity		
Learning Outcome - Configure ba	es sic internet connectivity of a system.		
- Perform suc	cessful connectivity test.		
Methods	Key Notes	Media	Time
	Introduction		
Preamble/	Introduce the learning unit	Computer	30mins.
preliminary	Motivate learners about the topic and its importance	CD ROM	
	Report learning objectives to learners:	CD's	
	- Knowledge about internet	Modem	
	- Explain types of internet connections	Lan Card	
	- Learn about procedure of internet	Wifi device	
		Marker	
	connectivity for each type	Duster	
		Multimedia	
		Projector	
	Main Body		
Exposition/Presentat	 Give details about what is internet. Explain variety of internet connection 	Computer	6hrs.
ion	- Elaborate procedure of internet connectivity	CD ROM	
	for each type	CD's	
		Modem	
		Lan Card	
		Wifi device	
		Marker	
		Duster	
		Multimedia	
Demonstration/Lab	- Set up basic internet connection	Projector	Demonst
Demonstration/LaD		Compute r system	
	- Test internet connectivity	CD ROM	ration/La
Individual Practice	Assign task to learners to configure basic internet	CD's	b
	connection and run a test to assess its success.	Modem LAN card	
		Wi-Fi	Individual
		device	Practice
		with respectiv	
		е	
		manuals	

	Conclusion	Marker White Board Duster Internet Connectivity Multimedia Projector UPS	
Question/ Answer session Wrap Up	Conduct Question/ Answers session to ensure learners' acquisition of relevant knowledge. Reinforce important points of the lesson.		30mins.
	·	Total time:	7hrs

DEMONSTRATION OF SKILL

Demonstration or modelling a skill is a powerful tool which is used in vocational training. The instructions for trainers for demonstration are as under:

- 1. Read the Procedure mentioned in the Learner Guide for the relevant Learning Unit before demonstration.
- 2. Arrange all tools, equipment and consumable material which are required for demonstration of a skill.
- 3. Practice the skill before demonstration to learners, if possible.
- 4. Introduce the skill to learners clearly at the commencement of demonstration.
- 5. Explain how the skill relates with the skill(s) already acquired and describe the expected results or show the objects to learners.
- 6. Carry out demonstration in a way that it can be seen by all learners.
- 7. Perform each step slowly and read out each step of the Performance Guide loudly so that all learners can hear and understand.
- 8. Identify critical or complex steps, or steps that involve safety precautions to be followed.
- 9. Explain theoretical knowledge where applicable and ask questions to learners to test their understanding.
- 10. Repeat critical steps in demonstration, if required.
- 11. Summarize the demonstration by asking questions to learners.

OVERVIEW OF PROGRAMME

Course: Computer Operator

Course Overview:

The overall objective of this program is to produce employable computer operators who can provide computer operating services in nearly any industry or organization, which involves computer in its operations. The graduates of this program will also be able to be entrepreneurs. However, this will require providing additional input on entrepreneurship development for the one who is willing to start his/her own business. (Not included in the curriculum).

Module	Learning Unit	Duration
	LU-1 Install operating system	
	LU-2 Configure peripheral devices	
	LU-3 Install peripheral devices	
	LU-4 Install software application	
1: Maintain	LU-5 Update/upgrade software application	112 Hours
Computer System	LU-6 Uninstall software application	
	LU-7 Perform windows scan	
	LU-8 Format external mass storage	
	LU-9 Troubleshoot basic software errors	
	LU-10 Troubleshoot basic hardware faults	
	LU-11 Configure basic internet connectivity	
	LU-1 Type document	
	LU-2 Set up page in a word document	
	LU-3 Edit word document	
	LU-4 Format word document	
2: Prepare Word Documents	LU-5 Save word document	
	LU-6 Insert in a word document	
	LU-7 Import document	
	LU-8 Protect document	
	LU-9 Insert table in a word document	

	LU-10 Hyperlink data in a word document	
	LU-11 Perform mail merge in a word document	
	LU-12 Insert header/footer in a word document	
	LU-13 Insert section break in a word document	
	LU-14 Set style in word document	
	LU-15 Insert table of contents in word document	
	LU-1 Create workbook	
	LU-2 Insert sheet	
	LU-3 Apply basic formulae / functions	
	LU-4 Crate charts/graphs	
3: Prepare	LU-5 Filter data	
Spreadsheets	LU-6 Format cell	142 hours
	LU-7 Edit worksheet	
	LU-8 Insert page break	
	LU-9 Split cells	
	LU-10 Merge cells	
	LU-1 Prepare Master slide	
	LU-2 Insert Slide	
4: Prepare	LU-3 Design Slide	
Presentation	LU-4 Apply Animation	88 hours
	LU-5 Apply sound effect	
	LU-6 Format Slide	
	LU-1 Set keyboard preferences	
5: Prepare In-page documents	LU-2 Layout Page	40 hours
	LU-3 Toggle between Languages	
L		

	LU-4 Insert Columns	
	LU-1 Configure Email Accounts	
	LU-2 Sort out Emails	
	LU-3 Manage Address Book	
6: Manage e- mail/internet	LU-4 Archive email Data	45 hours
	LU-5 Perform Browsing	
	LU-6 Download Data	
	LU-7 Send/Receive Email	
	LU-1 Perform Data Entry	
	LU-2 Manage File/folder	
7: Manage	LU-3 Perform Scanning	
Information	LU-4 Maintain Office Record	50 hours
System	LU-5 Perform Printing	
	LU-6 Search Files/Folders	
	LU-7 Convert Files	
	LU-1 Identify business opportunities in the field of Computer (ICT).	
8: Identify and peruse new business opportunities in the field of Computer (ICT)	LU-2 Develop structure of the new Computer Business	
	LU-3 Communicate new computer business to the customers	80 hours
	LU-4 Negotiate arrangements for the new computer business	

TRAINER GUIDELINES

Module 01: Maintain Computer System

		Dellisser	
Learning Unit	Suggested Teaching/ Learning Activities	Delivery Context	Media
	<u> </u>	Context	
LU1: Install operating system	 Give illustrative talk on the following learning element: Basic parts of computer i.e. hardware and software. Different operating system and differentiate one from other. Explain necessary precautions like securing data, RAM size, size of Operating Windows, compatibility etc. Summarize the lecture. Arrange Question/Answer Session. 	Class Room	Learner's Guide
LU2:	Give illustrative talk on the following		
Configure peripheral devices	learning element:		
	 Input and output peripheral devices: keyboard, mouse, printer, USB camera etc. Operation and application of commonly used peripheral devices and communication ports like eStata, S- Video, Display Port etc. Exemplify use of commonly used peripheral devices and communication ports, and different tasks executed with help of these devices and ports. Summarize the lecture. 	Class Room	Learner's Guide
LU3:	Give illustrative talk on the following		
Install peripheral devices	learning element:		
	 Explain why it is necessary to be cautious and follow instruction manual while installing most commonly used peripheral devices Elucidate cautions as per instruction manual to install most commonly used peripheral devices per instruction manual 	Class Room/ Computer Lab	Learner's Guide

	various peripheral devices.		
	Demonstrate the installation of most commonly used peripheral devices such as CD ROM, USB, Printer, Scanner, Key Board, Mouse, Web CAM etc.		
	Demonstrate the procedure of testing the		
	newly installed peripheral device for		
	example test print, use of mouse, Key		
	Board etc.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU4: Install software	Give illustrative talk on the following learning element:		
applications	 Types of software. Precautionary measures and their significance. Function of various software applications. 		
	Demonstrate the procedure to install a software application as per instructional manual while applying the relevant precautions.	Class Room/ Computer Lab	Learner's Guide
	Demonstrate the process of registering the software with the help of key.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU5: Update/upgrade software application	Give illustrative talk on the following learning element:		
	 Different versions of software applications Application of relevant precautions while updating/ upgrading software like legal, not a spam etc. Online applications Show case up gradation of software through CDs Ensure suitability of updated features with relation to specifications / requirements. 	Class Room/ Computer Lab	Learner's Guide
	Demonstrate procedure for updating / upgrading software and where necessary employ automatic update.		
	Ask learners to practice in small groups.		

	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU6: Perform un- installation of software	Give illustrative talk on the following learning element:	Class Room/ Computer Lab	Learner's Guide
LU7:Perform windows scan	 Give illustrative talk on the following learning element: Necessary precaution before window scanning. Demonstrate procedure for scanning and detecting virus with any registered antivirus. Demonstrate procedure to delete infected files Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 	Class Room/ Computer Lab	Learner's Guide
LU8: Format External Mass Storage	 Give illustrative talk on the following learning element: Necessary precautions before formatting external mass storage e.g. back-up, data security etc. Demonstrate formatting on any one mass storage device like USB, CD, memory card etc. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 	Class Room/ Computer Lab	Learner's Guide
LU9: Trouble shoot basic software errors	Demonstrate the procedure of troubleshooting software like window scan, Window optimizer, compress disk etc. Explain that general software errors include computer Bug, path /track corruption and its damages etc. Demonstrate the procedure of applying the precautions for trouble shooting errors and system testing, structural	Class Room/ Computer Lab	Learner's Guide

	testing, how to use windows help etc.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU10: Troubleshoot basic hardware faults	 Give illustrative talk on the following learning element: Basic hardware faults Types of hardware troubleshooting Precautions for trouble shooting errors. Identify solution of hardware errors. Demonstrate the procedure to execute hardware troubleshooting and identify solution. Ask learners to practice in small groups. Summarize the lecture. 	Class Room/ Computer Lab	Learner's Guide
LU11:	Arrange Question/Answer Session. Explain internet		
Configure basic internet connectivity	Explain types of internet connections. Demonstrate procedure of internet		
	connectivity for each type.	Class Room/	Learner's
	Ask learners to practice in small groups.	Computer Lab	Guide
	Summarize the lecture.		
	Arrange Question/Answer Session.		

Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Type document	Demonstrate procedure to use Shift and Ctrl keys,		
	Demonstrate procedure to use Delete and back space keys,		
	Demonstrate procedure to use Space bar key,		
	Demonstrate procedure to use Enter, etc.		
	Demonstrate procedure to use numeric pad on the key board		
	Demonstrate procedure to use left, right, up, down arrow keys on the key board.		Learner's
	Demonstrate procedure of typing using keyboard and mouse of computer etc.	Computer Lab	Guide
	Demonstrate systematic way of typing. Typing lesson from any of the typing tutor programs.		
	Demonstrate use of about at least 3 types of typing tutor programs like free typing tutor, typing web, rapid typing etc.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-2 Set up page in a word document	Demonstrate the components of page set up through toolbar dialog box.		
	Demonstrate procedure of suitable orientation of the page like landscape of portrait etc.		
	Demonstrate procedure of applying page margins like Top, bottom, left and right etc.		
	Demonstrate procedure of using paper sizes like Letter, legal, executive, A5, A4 etc.	Computer Lab	Learner's Guide
	Demonstrate procedure to perform switching between Landscape and portrait layouts etc.		Guide
	Demonstrate procedure to insert columns like one, two, three or left and right etc.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-3 Edit word document	Demonstrate procedure to perform save as function Demonstrate procedure to perform different features of editing through "Edit" toolbars and dialogue box	Class Room/Computer Lab	Learner's Guide

LU-4 Format word document Demonstrate different features of formatting the word file through toolbar and dialog box. Demonstrate procedure to justify, font selection, use font size, insert, delete text and page layout etc. Demonstrate procedure to justify, font selection, use font set like size, colour, bold, italic, Justify and styles etc. Demonstrate procedure to add page numbers to the word document. Computer Lab Learner's Guide Demonstrate procedure to use appropriate style of different fonts. Ask learners to practice in small groups. Computer Lab Learner's Guide LU-5 Save word document Demonstrate procedure to save a word file like "ctrl S" on key board and file menu on menu bar etc. Class Room/Computer Lab Class Room/Computer Lab Learner's Guide LU-5 Save word document Demonstrate procedure to save a word file like "ctrl S" on key board and file menu on menu bar etc. Class Room/Computer Lab Class Room/Computer Lab LU-5 Save word document Demonstrate procedure to save a word file site "ctrl S" on key board and file menu on menu bar etc. Learner's Guide Demonstrate procedure to save a word file sith different locations. Explain storage device Lab Learner's Guide Ask learnery and capacity functions. Demonstrate difference between "Save" and "Save as" by changing some location, name and paths etc. Class Room/Computer Lab Class 	Demonstrate procedure to perform track changes command along with balloon, show mark-up, accept, reject and comments commands etc. Explain different editing options available in the toolbars of the Word file like, word count, set language, treasure, spell check, reviewing pane etc. Demonstrate procedure to perform editing like insert delete text in the file, change name etc. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.		
Lu-S Save word documentDemonstrate procedure to save a word file with different names Demonstrate procedure to save a word file at different locations.Computer LabLearner's GuideLU-S Save word documentDemonstrate procedure to save a word file like "ctrl S" on key board and file menu on menu bar etc.Class Room/Computer LabLearner's GuideLu-S Save word documentDemonstrate procedure to save a word file like "ctrl S" on key board and file menu on menu bar etc.Learner's GuideLearner's Guide	the word file through toolbar and dialog box. Demonstrate procedure to justify, font selection, use font size, insert, delete text and		
Demonstrate procedure to add page numbers to the word document.Computer LabGuideDemonstrate procedure to separate headings in the text.Demonstrate procedure to use appropriate style of different fonts	Demonstrate features of paragraph dialogue box and fonts etc like size, colour, bold, italic,		l anno 10
in the text.Image: Class of the set of th		Computer Lab	
style of different fonts.Image: Style of different fonts.Ask learners to practice in small groups.Summarize the lecture.Summarize the lecture.Arrange Question/Answer Session.LU-5 Save word documentDemonstrate procedure of saving a word file like "ctrl S" on key board and file menu on menu bar etc.Demonstrate procedure to save a word file with different namesDemonstrate procedure to save a word file offiferent locations.Demonstrate procedure to save a word file with different namesDemonstrate procedure to save a word file at different locations.Demonstrate procedure to save a word file at offiferent locations.Class Room/Computer LabExplain memory and capacity functions.Demonstrate difference between "Save" and "Save as" by changing some location, name and paths etc.			
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LU-5 Save word documentDemonstrate procedure of saving a word file like "ctrl S" on key board and file menu on menu bar etc.RepresentationRepresentatio	Summarize the lecture.		
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different locations.ClassLearner'sExplain storage deviceRoom/ComputerGuideExplain memory and capacity functions.LabDemonstrate difference between "Save" and "Save as" by changing some location, name and paths etc.Image: Class			
Explain storage deviceLabExplain memory and capacity functions.Demonstrate difference between "Save" and "Save as" by changing some location, name and paths etc.			
Demonstrate difference between "Save" and "Save as" by changing some location, name and paths etc.	Explain storage device		Culac
"Save as" by changing some location, name and paths etc.	Explain memory and capacity functions.		
Ask learners to practice in small groups	"Save as" by changing some location, name and		
Astreamers to produce in sindingroups.	Ask learners to practice in small groups.		

	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-6 Insert in a word document	Demonstrate procedure of inserting different types of objects (picture, clip art, shapes, smart Art and chart etc.) in a word file.		
	Demonstrate procedure of inserting object (Illustrations) in a word document		Learner's
	Demonstrate other insert commands like insert table, cover page, table of contents, header footer etc.	Computer Lab	Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-7 Import document	Demonstrate the procedure of importing various kinds of material like slide, data, table, text into a word document.		
	Explain online availability of material		
	Demonstrate procedure to import contents materials into a document file.	Class Room/Computer	Learner's Guide
	Demonstrate procedure to use reference to assign various imported material.	Lab	Canac
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-8 Protect document	Demonstrate the procedure to protect a word document as to limit its formatting for a style.		
	Demonstrate the procedure to apply protection to a word document for restricting its editing to a particular style only.		
	Demonstrate the procedure to save a word document by assigning a particular password in order to restrict its accessibility to others.	Computer Lab	Learner's Guide
	Demonstrate the procedure to open a protected word document with the help of a valid password at any stage of time.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-9 Insert table in a word document	Demonstrate the procedure of inserting table in the word file.	Class	Learner's
	Explain various uses of tables in the word file.	Room/Computer Lab	Guide
	Demonstrate the procedure to use toolbar and		

	dialogue box for insert table.		
	Demonstrate the procedure to insert a table with five rows and six columns and headings with shaded area and bold and all entries in a center text with some etc.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-10 Hyperlink data in a word document	Demonstrate the procedure of data hyperlink in a word file on a appropriate location.		
	Demonstrate the procedure to open and close the same data when required.		
	Explain the use and purpose of inserting bookmark, cross reference and hyperlink in a word file.	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-11 Perform mail merge in a word	Explain the purpose of mail merge.		
document	Demonstrate the procedure of mail merge function with the help of given/available data.		
	Demonstrate the procedure of mail merge to create same from letters in word format and design mail labels and address book etc.	Class Room/Computer	Learner's Guide
	Explain attributes of mail merge box	Lab	
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-12 Insert header/footer in a word document	Explain the purpose of using Header and Footer in the word file.		
word document	Demonstrate the process of inserting Header and Footer in the word file.		
	Explain the difference between header and footer and their options available as a ready format in the toolbar of a Microsoft word.	Class Room/Computer	Learner's Guide
	Demonstrate the procedure of inserting date and page numbers etc. in the footer	Lab	
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		

LU-13 Insert section break in a word document	Explain the purpose of inserting section break in a word document.		
	Demonstrate the procedure of inserting section break in a word document.		
	Explain difference between section break and page break and their purpose and utility.	Class	
	Demonstrate different attributes of Breaks menu in a word file.	Class Room/Computer Lab	Learner's Guide
	Demonstrate the procedure to Insert a Section Break at a given location of a word document.		
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-14 Set style in word document	Demonstrate the procedure of set style with the help of Multimedia projector.		
	Explain the purpose of setting styles in a word document and its various utilities.		
	Demonstrate the procedure to set the same style in the given word document file available at PC.	Class Room/Computer	Learner's Guide
	Demonstrate the procedure to assess the quality of performance.	Lab	
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-15 Insert table of contents in word	Demonstrate the process of inserting a table of contents in the word file.		
document	Demonstrate procedure of using different heading options in the toolbars for inserting Table of content.		
	Explain purpose and uses of inserting table of contents in a word file.	Class Room/Computer	Learner's Guide
	Demonstrate various features of Table of content menu in a word file.	Lab	
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
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Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Create workbook	Explain excel spreadsheet application software.		
	Demonstrate the procedure to create a workbook on spreadsheet applications in the Excel software.		
	Demonstrate the procedure to create workbook using spreadsheet.	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-2 Insert sheet	Demonstrate procedure how to insert sheet in the Excel file.	Class Room/Computer	
	Demonstrate procedure to insert Sheet in the Excel file, as per given instructions.		Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-3 Apply basic formulae / functions	Demonstrate basics of creating a formula / function in the spreadsheet in the latest versions of Excel.		
	Demonstrate procedure to create and use formulas, including a step by step example of a basic Excel formula. Such as		
	 How to enter a formula Make it easy to change your spreadsheet Automatic updating Adding to formulas Entering the Data Add the Equal (=) Sign Add Cell References Using Pointing 	Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-4 Crate charts/graphs	Explain charts/graphs and their use in the excel sheets with examples	Class	Learner's
	Demonstrate procedure to create different kinds of charts like, charts, graphs pie chart, bar chart, gant chart, line graph, scattered chart, area chart etc.	Class Room/Computer Lab	Guide

Demonstrate procedure to set a default chart in the file.		
Demonstrate and solver to the training		1
Demonstrate procedure to assign a suitable name to the chart		
Demonstrate procedure to add values and labels in the chart		
Demonstrate procedure to convert a chart into another form		
Demonstrate the procedure of creating different charts/graphs		
Demonstrate procedure to select type of chart, colour of chart area and present the same with labels and values etc.		
Demonstrate procedure to edit the different components of charts areas		
Ask learners to practice in small groups.		
Summarize the lecture.		
Arrange Question/Answer Session.		
Demonstrate the procedure of filtering data by making some different fields and preferences on the same sheet as well as on some other sheets.		
Explain difference between filter and sort of data from different aspects.		
Demonstrate the procedure of data sorting from A-Z and also from Z-A.	Class Boom/Computer	Learner's Guide
Demonstrate the procedure of some basic functions on the filter and some advance options like skipping the lower values or date wise etc.	Lab	
Ask learners to practice in small groups.		
Summarize the lecture.		
Arrange Question/Answer Session.		
Explain the features of Format Cell available in the toolbar and the dialog box.		
Demonstrate the procedure to format different cells in different manners.	Class Boom/Computer	Learner's Guide
Ask learners to practice in small groups.	Lab	Juide
Summarize the lecture.		
Arrange Question/Answer Session.		
Demonstrate the procedure to edit worksheet with different requirements like size of cells, colours, shades and lines etc.	Class Room/Computer Lab	Learner's Guide
	labels in the chartDemonstrate procedure to convert a chart into another formDemonstrate the procedure of creating different charts/graphsDemonstrate procedure to select type of chart, colour of chart area and present the same with labels and values etc.Demonstrate procedure to edit the different components of charts areasAsk learners to practice in small groups.Summarize the lecture.Arrange Question/Answer Session.Demonstrate the procedure of filtering data by making some different fields and preferences on the same sheet as well as on some other sheets.Explain difference between filter and sort of data from different aspects.Demonstrate the procedure of some basic functions on the filter and some advance options like skipping the lower values or date wise etc.Ask learners to practice in small groups.Summarize the lecture.Arrange Question/Answer Session.Explain the features of Format Cell available in the toolbar and the dialog box.Demonstrate the procedure to format different cells in different manners.Ask learners to practice in small groups.Summarize the lecture.Arrange Question/Answer Session.Explain the features of Format Cell available in the toolbar and the dialog box.Demonstrate the procedure to format different cells in different manners.Ask learners to practice in small groups.Summarize the lecture.Arrange Question/Answer Session.Demonstrate the procedure to cell worksheet with different requirements like size of cells,	labels in the chartImage: space of the space

	Explain the precautions to be taken while editing a spreadsheet worksheet also some basic functions like Wrap Text, font boarder, fill protection etc. Demonstrate the procedure of editing worksheet. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.		
LU-8 Insert page break	Demonstrate the procedure of inserting page break in an excel file according to the given design		
	Demonstrate the procedure of inserting page break in a excel file according to the given design.	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-9 Split cells	Demonstrate the procedure to split cells in the worksheet		
	Demonstrate the procedure to split cells by demonstrating various steps in an excel sheet.	Class Room/Computer	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-10 Merge cells	Demonstrate the procedure for splitting cells in the excel file.	Class	Loorpor's
	Ask learners to practice in small groups.	Class Room/Computer	Learner's Guide
	Summarize the lecture.	Lab	
	Arrange Question/Answer Session.		

Module 04: Prepare Presentation			
Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Prepare Master slide	Explain the interface of presentation software		
	Demonstrate the procedure of using Master Slide as per options available in the software of Power Point.		
	Explain the significance of preparing master slide before preparing a presentation.	Class	Learner's
	Demonstrate the procedure of preparing master slide including slide orientation and layout of the master slide.	Room/Computer Lab	Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-2 Insert Slide	Demonstrate the procedure to insert slide in the power Point presentation.		
	Demonstrate the procedure of inserting different types of slides like new slide, duplicate slide or any other slide with a different look and theme.	Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-3 Design Slide	Explain design slide		
	Demonstrate the procedure to design a slide in the power point		
	Demonstrate the procedure to change the design and colour, fonts, effects and background etc.	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-4 Apply Animation	Explain the concept of adding animation in the power Point slide show.		
	Demonstrate the basic techniques of animation like wipe down, wipe up, Wedge, Shape diamond, Wheel clockwise etc.	Class Room/Computer	Learner's Guide
	Demonstrate the features/attributes of animation pane available in the power Point software.	Lab	

	to a single slide and to various slides Explain the difference between animation and transition of a slide and setting a transition time (Fast, Medium or Slow) for a slide or setting it on a single click, or mouse click etc. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.		
LU-5 Apply sound effect	Explain sound effect. Demonstrate the uses of sound effect Demonstrate the procedure to apply sound effect e.g. Camera, Bomb, arrow, applause, drum roll etc. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide
LU-6 Format Slide	Demonstrate the procedure to format slide Demonstrate the procedure to format slide Demonstrate the procedure to format the slide in different ways Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Computer Lab	Learner's Guide

Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Set keyboard preferences	Explain keyboard preferences		
	Demonstrate procedure of step wise setting of keyboard preferences on the PC with In-Page interface.		
	Demonstrate key position of any keyboard preferences by switching the language from English to Urdu, as per user requirement	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-2 Layout Page	Explain different page sizes in the In-Page file.		
	Demonstrate procedure of elaborating page margins in the in page format		
	Demonstrate procedure of exhibit to add page numbering in the file	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-3 Toggle between Languages	Explain supportive languages in In-page such as Urdu, Arabic or Persian etc.		
	Demonstrate the procedure of performing toggle between different languages	Class	Learner's
	Explain procedure of toggling between languages	Room/Computer Lab	Guide
	Ask learners to practice in small groups.		
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-4 Insert Columns	Explain the importance of columns in In-page and performing them manually.		
	Demonstrate the procedure of supporting options for inserting columns.	Class	Learner's
	Demonstrate the steps of inserting columns	Room/Computer	Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		

Module 06: Manage e-mail/internet			
Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Configure Email Accounts	Explain Email Demonstrate the steps for Email configuration		
	Demonstrate the procedure of identifying Errors while Email configuration Ask learners to practice in small groups. Summarize the lecture.	Class Room/Computer Lab	Learner's Guide
	Arrange Question/Answer Session.		
LU-2 Sort out Emails	Demonstrate the procedure of sorting out of emails on the PC. Demonstrate procedure of sorting out emails in the outlook and its benefits Demonstrate procedure of successfully sorting out of emails as per instructions. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide
LU-3 Manage Address Book	Explain address book Demonstrate the method of managing the address book by adding some contacts, removing contacts, importing, exporting sorting and updating etc. Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide
LU-4 Archive email Data	Demonstrate procedure of archiving Email data Demonstrate practically the procedure of archiving emails, as per requirements Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide
LU-5 Perform Browsing	Explain Browsing Demonstrate the procedure of browsing as per given instructions Ask learners to practice in small groups. Summarize the lecture.	Class Room/Computer Lab	Learner's Guide

	Arrange Question/Answer Session.		
LU-6 Download Data	 Give illustrative talk on the following learning element: Downloading Take precautions to be taken to download data Demonstrate the procedure of downloading data Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 	Class Room/Computer Lab	Learner's Guide
LU-7 Send/Receive Email	Demonstrate the procedure to send an email. Demonstrate the procedure to receive an Email. Explain precautions to be taken for sending/receiving Emails Demonstrate the procedure to perform the components to send/Receive Emails Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide

Module	Suggested Teaching/ Learning Activities	Delivery Context	Media
LU-1 Perform Data	Demonstrate procedures of data entry.		
Entry	Explain types of data.		
	Demonstrate the techniques to enter the data efficiently.	Class Room/Computer	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-2 Manage	Explain the difference between files/folders		
File/folder	Explain types of files		
	Explain storage devices		
	Demonstrate procedure of managing data on Hard disk	Class Room/Computer Lab	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-3 Perform Scanning	Explain the procedure of scanning		
	Explain pre-requisites for scanning		
	Demonstrate step by step procedure of scanning a computer	Class Room/Computer	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-4 Maintain Office Record	Explain the importance of indexing		
Netoru	Demonstrate procedure of identifying steps for maintain the office record		. ,
	Demonstrate procedure of performing indexing	Class Room/Computer	Learner's Guide
	Ask learners to practice in small groups.	Lab	
	Summarize the lecture.		
	Arrange Question/Answer Session.		
LU-5 Perform Printing	Demonstrate the steps of printing		
i iiitiiig	Demonstrate procedure of performing printing options	Class Room/Computer	Learner's Guide
	Explain essential requirements before printing	Lab	Guide
	Explain types of printers		

	Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.		
LU-6 Search Files/Folders	Explain types of files Demonstrate procedure of enlisting wild cards Demonstrate procedure of search Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide
LU-7 Convert Files	Demonstrate the procedure of identifying file conversion software Demonstrate the procedure of files conversion Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session.	Class Room/Computer Lab	Learner's Guide

Module 08: Identify and peruse new business opportunities in the field of Computer (ICT)

Computer (ICT)				
Module	Suggested Teaching/ Learning Activities	Delivery Context	Media	
LU-1 Identify business opportunities in the field of Computer (ICT).	 Give illustrative talk on the following learning element: Look for, and recognise, business opportunities in the Computer sector Create Computer business opportunities where they do not obviously exist Quickly identify potential Computer business developments and how they will affect the new business Identify the additional benefits of potential Computer business opportunities Summarize the lecture. 	Class Room	Learner's Guide	
LU-2 Develop structure of the new Computer Business	 Give illustrative talk on the following learning element: Check what laws and other regulations will affect the new Computer business Work out what money needed to start the new Computer business and keep it running Identify own contribution to running the new Computer business Determine the staff needed for the new Computer business Decide how to use quality standards in the new Computer business Decide on the new Computer business Decide on the new Computer business Decide on the new Computer business Decide how you will get equipment, tools and materials Identifying other sources of support Demonstrate the procedure of Sourcing suppliers for the new Computer business Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 	Class Room/Computer Lab	Learner's Guide	
LU-3 Communicate new computer business to the	Give illustrative talk on the following learning element:	Class Room/Computer Lab	Learner's Guide	

customers	 Know the competition from other Computer businesses and be able to explain to customers the advantages of own offer Check that the marketing strategy is based on an accurate understanding of potential customer's needs and preferences Remind customers regularly of the benefits of dealing with the new business, including in person, by e- mail, through advertising or promotional campaigns Improve the experience new customers have when dealing with the new business, including maintaining contact with them, tailoring products or services to meet their specific needs, offering discounts for customer loyalty. Demonstrate the procedure of employing methods of marketing Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 		
LU-4 Negotiate arrangements for the new computer business	 Give illustrative talk on the following learning element: Clearly explain the features of the arrangements that need to be made and the benefits to the other person or organization Think whether there is anything to negotiate on other than price Behave ethically throughout negotiations Demonstrate the procedure of negotiating arrangements calmly and effectively Demonstrate the procedure of signing off arrangements so they are clear to all parties Demonstrate the procedure of recording the outcome of the deal so it is clear to all parties and legally sound, including contractual arrangements, communicating the agreement by e-mail or fax Ask learners to practice in small groups. Summarize the lecture. Arrange Question/Answer Session. 	Class Room/ Computer Lab	Learner's Guide

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