BASICHOME/OFFICE ELECTRICAL/ELECTRONICS EQUIPMENT SERVICING Level-II

Learning Guide-34

Unit of Competence: Apply Routine Problem Solving Techniques

Module Title: **Applying Routine Problem Solving Techniques**

LG Code EEL HOS2   M09 -4 LG-34

TTLM Code: EEL HOS2   M09 TTLM 1019v1

LO4: Implement solution

Instruction Sheet	**Learning Guide # 34**

This learning guide is developed to provide you the necessary information regarding the

following content coverage and topics:

- Identifying objectives
- Identifying Resource
- Identifying Timeline

This guide will also assist you to attain the learning outcome stated in the cover page.

Specifically, upon completion of this Learning Guide, you will be able to:

- Identify objectives
- Identify Resource
- Identify Timeline

Learning Instructions:

1. Read the specific objectives of this Learning Guide.

2. Follow the instructions described below 3 to 6.

3. Read the information written in the information "Sheet 1, Sheet 2, and Sheet 3.

4. Accomplish the "Self-check 1, Self-check 2 and Self-check-3

5. Do the "LAP test"

Information Sheet-1	Identifying objectives

4.1. Identifying objectives

INTRODUCTION

The term learning means changes in our behavior, attitude, knowledge and skills. In other wards we can say that through learning we can feel permanently changes in our self. If we are not feeling any changes in our above skills then it will not be called as learning. The learning is a type of reinforcement, which may learn a change in behavior enduring by strengthening and intensifying certain aspect of an individual behavior. Learning may be described at the process of acquiring the ability to respond adequately to a situation, which may or may not have been previously an countered.

Components of learning objectives:- The learning objectives has the following components:-
1. Audience- Audience is the target of learning objective and the audience character.
 2. Behavior - Behavior is expected from the learner to show the audience has learned something from the instructor.
 3. Condition-Under what condition will the learner be expected to demonstrate his/her knowledge. It is the responsibility of instructor to create an atmosphere of learning for grasping the memory from the learning environment.
Main characteristics of good learning objective
1. The learning objective should identify learning outcomes: – The main objective of learning is reflection. The objective needs to state what the learner is to perform, not how the learn lesson.
2. The learning objective should be consistent with course goal – it is necessary that the learning objective should be consistent with the course goal. When objective and goals are not consistent two avenues of approached will be available. - Change the objective or - Change the course goal
 3. The learning objective should be precious:- Its some have difficulties to strike a balance between too much and too little precious in an objective. There should be a free line between choosing objective that reflects an important and meaningful outcome of instructions and objective. To make the objective of learning the affective steps are as under:- - Starts class on schedule. - Present material listed in lesson plans and follows the general outline. - Use following traits and techniques

while conducting instruction: flexibility, spontaneity, provides empathy, and compassion uses good questioning techniques, is an active listener, gets feedback, uses positive reinforcement, and provide counseling. - Facilitator directs and guides the learner towards finding the correct answer to their questions, rather than being an answering service.

Provide coaching. - Demonstrates new or difficult material in manner that may be seen and understood by the learners. - Evaluates learner in the prescribed manner. - Grades tests and distributes scores as required. - Completes class roster and other form at end of training session and deliver them to the training department. - Completes all learning activities and required function, during allotted time period.

Learning Objective and Techniques of Motivation Knowledge, Understanding, application and creativity can be used as criteria for selecting the appropriate techniques of motivation.

1) Knowing Objectives: This objective is achieved to develop the recall and recognition abilities .it is the lowest learning objective and concerns with the environment of objects. The reward, praise, punishment and reproof techniques of motivation may be employed to achieve knowledge objective. The concrete form of motivation is effective for this purpose.

2) Understanding objectives: The understanding objective is realized by developing the abilities of seeing relationship, discrimination, cite example and generalization, the environment and content both are equally important for providing appropriate learning experiences to the students. The praise, success, punishment and failure techniques of motivation can assist in achieving this objective.

3) Application of objectives: An application objective is achieved by developing the abilities of reasoning, hypothesizing, inferring, and prediction. The perception and expectancies of the students play the significant role. The success and failure, cooperation and competition knowledge of results and attitude, techniques of motivation can help in realizing the objective of application.

Creativity objectives: The creativity is the highest objective of the cognitive domain. This can be achieved by satisfying the highest needs of a person and employing internal motivation. The analysis, synthesis and evaluation or Judgment abilities are developed for achieving this objective. The context is most important and environment is least important. The ego environment and self-motivation is essential for creativity. The level of aspiration, novelty and attitude, techniques of motivation can be used for achieving creativity objective.

Self Check #1	**Written test**

Name: _____Date: _____

Time Start: _____Time Finish: _____

Direction: for each of the following questions fill in the blank space

1. What are the Components of learning objectives

    A._____

    B._____

    C._____

2. List down Main characteristics of good learning objective

A._____

B._____

C._____

Information Sheet-2	Identifying Resource

4.2. Identify needed resources

Resources that are relevant to troubleshot identify and analyzing problems like information, people.

What resources do I need?

e.g. Books, internet, lab manuals, circuit diagrams etc.

Where will I get them?

e.g. we will gate books from library, friends, families etc

How long will it take? The time will determine according to the given task difficulty.

What can others offer?

Are there any special requirements?

TABLE 1   Identifying resources and needs

	Resources	needs	example
People/organizations to form part of the network, Potential data sources to form the basis of the system.			Gain cooperation . ' of different individuals involved. Develop way of collecting information on a specific core area, e.g. usage of electronics equipment
Human resources :skills and expertise on data selection, electrical issues; faulty areas			Training in specific aspects of data collection. Advocacy to increase awareness of the purpose of data collection
Infrastructure to collect data and communicate b/n members			Need internet connection to facilitate communication, or mailing list of member contact. Data entry software assist with data analysis
Capacity for financing data collection or providing time to undertake activities			Staff time to assist with data analysis and net work coordination. Finances to cover provision of data entry software. Finance to cover venue and travel

Self Check #1	Written test

Name: _____Date: _____

Time Start: _____Time Finish: _____

Direction: <u>For each of the following questions choose the best answer</u>

1. Which of the following is a resource
   A. Books   C. Internet
   B. People   D. All
2. Where will we get resources
   A. Libraries   C. Families
   B. usage of electronics   D. all

Information Sheet-3	Identifying Timeline

3.1.   Identify timelines in accordance with plan

We like to begin at the end

On a calendar, mark down when your first contest is, then work your way backwards keep all the items you must complete in mind.

Adjust the dates depending upon how much time you will have.

What you must complete by your first qualifier:

. Pick a topic
. Research that topic
. Come up with an innovative solution
. Share that solution
. Write a presentation for judges
. Create props and poster boards
. Practice your presentation

Self Check #1	Written test

Name: _____Date: _____

Time Start: _____Time Finish: _____

Directions: **I. WRITE TRUE IF THE STETEMENT IS TRUE OR FALSE IF THE STETEMENT IS FALSE**

1. One of the time management is mark starting date**.**
2. Adjust the dates depending upon how much time you will have is time planning.

Operation Sheet- 1	Identifying Resource

Techniques for Identifying Resource

Step 1 . analysis issues

Step 2. List different resource

Step 3. Identifying resource.

Operation Sheet- 2	Identifying Timeline

Techniques fore identifying timeline.

Step 1. Analysis the work.

Step 2. Justify the resources.

Step 3 . Locate the time line.

LAP Test	Practical Demonstration

Name: _____ Date: _____

Time started: _____ Time finished: _____

Instructions: Given necessary templates, tools and materials you are required to perform the following tasks .

Task 1: Identifying objectives

Task 2: Identifying Resource

Task 3: Identifying Timeline

References: **Buy Electronic Equipment Schematic Diagrams**
1) www.Radiolocman.com
2) www.justmanuals.com
3) www.servicemanuals.net