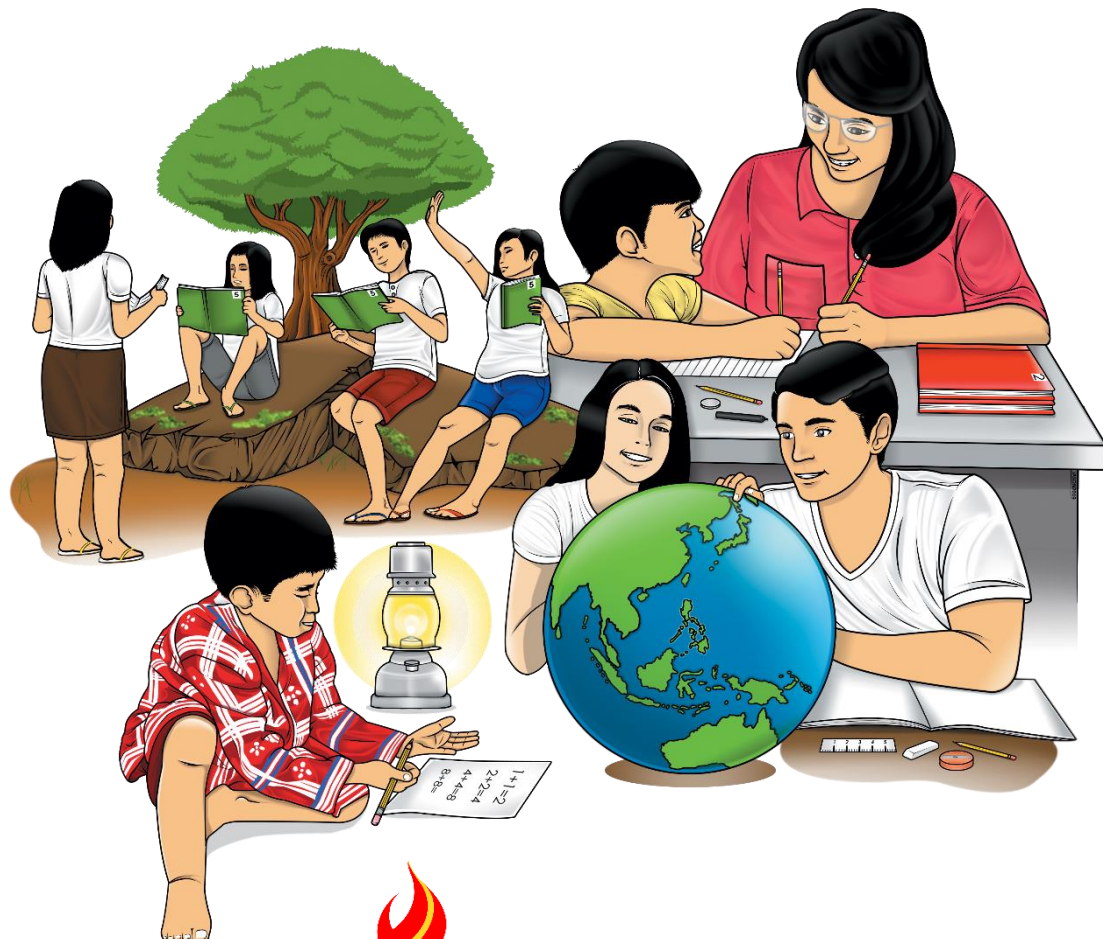


English

Quarter 4 – Module 2: Technical and Operational Definitions



English – Grade 10
Alternative Delivery Mode
Quarter 4 – Module 2: Technical and Operational Research
First Edition, 2020

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English

Quarter 4 – Module 2: Technical and Operational Definitions

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



What I Need to Know

Welcome! This module is about TECHNICAL AND OPERATIONAL DEFINITIONS!

This is intended to help you, learners, understand and master the kinds of defining terms used. Also, this will help you improve your vocabulary.

HOW TO USE THIS MODULE

This module contains several lessons. To make the most out of them, you need to do the following:

1. Scan the list of *Learning Objectives* to get an idea of the knowledge and skills you are expected to gain and develop as you study the module. These outcomes are based on the content standards, performance standards, and learning competencies of the K to 12 Curriculum English 10.
2. Take the *What I Know*. Your score will determine your knowledge of the lessons in the module. If you get 100% of the items correctly, you may proceed to the next module. Otherwise, you must go through the lessons.
3. Each *Lesson* aims to develop one of the learning objectives set for the module. It starts with an activity that will help you understand the lesson and meet the required competencies.
4. Take your time in reading this module. Write down points for clarification. You may discuss these points with your teacher.
5. Perform all activities and answer all worksheets. The activities and assessments are designed to enhance your understanding of sets. The activities will also give you an idea how well you understand the lessons. Review the lessons, if necessary, until you have achieved a satisfactory level of understanding.
6. At the end of the module, take the *post-Assessment* to evaluate your overall understanding about the lessons.

LEARNING OBJECTIVES

At the end of the module, you should be able to:

- 1) give other technical and operational terms.
- 2) differentiate technical and operational terms.
- 3) use the technical and operational terms in sentences.



What I Know

Pre-test

Words are not as simple as they appear. Their meanings can be complex and difficult as they operate differently in various contexts. The word **plant**, for instance, can be used in Biology, but it can also be utilized differently when we talk about business production. It could mean differently in Engineering. This is why it is important to be able to navigate from operational to technical definitions.

But first, let us test what you already know about the lesson. If you ace this test, then you may proceed to the next module.

Sample:

My music teacher asked me to look at the notes properly. = **Technical**

The meaning of the underlined word can be both a musical note and a written note making it Technical

Direction: Identify the underlined words in the sentences below. Write **TECHNICAL** or **OPERATIONAL** depending how it used in the sentences. Please clean sheet of paper for your answers.

- _____ 1. The bank closes at 3pm daily.
- _____ 2. My father's operation was done successfully and is under recovery.
- _____ 3. Conglomerate boards of SM had decided to relieved the CEO from his position starting tomorrow.
- _____ 4. Students usually surfs the websites for answers of their modules.
- _____ 5. The fruits of her hardships were greatly rewarded.
- _____ 6. The soldier's watch was over a minute ago when his reliever came.
- _____ 7. The soldier's watch was broken.
- _____ 8. My friend's promise was broken.
- _____ 9. My vase was broken by my cat.
- _____ 10. The fruit from the chico tree were eaten by the birds.

Lesson

1

Technical and Operational Definitions



What's In

How did you find the pre-test? Was it difficult? If you find it challenging, you do not have to worry that much. It is normal that you do not know all the technical terms because their definitions are specialized within a specific discipline. So what is the lesson all about?

The lesson is about words with the same structure, meaning spelling but different meaning. This will depend how it is used in a sentence.



<https://stragemanage.com/wp-content/uploads/pdfs/opdef.pdf>

TECHNICAL and OPERATIONAL definition

What is **TECHNICAL** definition?

- it refers to the definition of a word as used in a particular field like Science, Law, or Engineering.
- The meaning of the word is associated with the field or area of study.
- mostly refers to the aspect of explaining or describing any terminology.
- the definition of terms/words are found in the dictionary.

EXAMPLE:

OPERATION – it is a procedure followed in an instruction.

SURF - it is a sports, where a person stands on a board and rides with the waves.

What is **OPERATIONAL** definition?

- it is a result of the process of operationalization and it is used to define something (term/object) in terms of process.
- it is the process of defining a word/term of how it is used in a sentence, or using context clues.
- it is the application of the word/term. These may include the various attempts to define or explain a certain process and its properties including but not limited to the characterization of the event itself.

EXAMPLE:

COMPUTER – (Technical) it is a device or machine used in performing, assessing, evaluation and following commands set by the users.

- (Operational) it is something used in doing homework or browsing the internet.

OPERATION – (Technical) in a military field, it means a mission with specific goals and objectives.

- (Operational) it is the procedure given to be followed.

Why do we have to know these? For most people, these can be a reason for miscommunication or misunderstanding. When people do not share meaning, they may arrive at decisions that are not well-informed.

Also, when we need to explain how something works, technical definition will help because it offers us the details. When we need just an idea, operational definition is more helpful.

How about you? In what way can you take advantage of these types of definition?



What's New

Now let us get into each type of definition. In the next activity let us explore technical definitions first.

We have already learned about these definitions. Operational and Technical definition of words.

Activity 1: I AM TECHNICAL

Direction: Read the statements below. Give the correct meaning of the underlined technical words. Choose from the given selections. Write your answers on the blanks before the number.

- _____ 1. The Red Cross furnishes food and clothing to the typhoon victims.
a. pulls b. builds c. gives d. pushes
- _____ 2. Dad saturates the cloth with water. After it had been soaked, he pours spot remover on the stain. What does saturate mean?
a. dries b. soaks c. dirties d. folds
- _____ 3. The boys were in peril as they sat on the edge of the cliff. They were in danger of being swept away by the strong waves. What does peril mean?
a. danger b. safe c. happy d. secure
- _____ 4. The bank has other branches in the city. What does branches mean in the sentence?
a. limbs of a tree b. offices c. classes d. groups
- _____ 5. A swimmer began to flounder in the ocean and yelled for help. What does flounder mean in the sentence?
a. a kind of fish c. a character in an animated movie
b. struggle d. float
- _____ 6. Exercises are given at the end of the discussion.
a. do body movements c. a rhythmic body activity
b. written/oral assessment d. running, swimming and dancing
- _____ 7. The air squadron fighters got the command to fire missiles at the enemy. What does fire indicate in the sentence?
a. heat b. burn c. shoot d. desire
- _____ 8. Please play the music for us. What does play in the sentence indicate?
a. turn on b. a toy c. a game d. an item
- _____ 9. Please press enter on your keyboards for the data to be recorded.
a. opening a door to enter a room
b. a command that tells you to enter a room
c. going inside the elevator.
d. to press a key on a keyboard to give a command to the computer system

- _____ 10. The lady was crying and at the same time her face is all red while eating. What does this indicate?
- The lady is sad since she does not want the food.
 - The lady is eating a bitter food.
 - The lady is eating a spicy food.
 - The lady is eating sweet food.



What is It

What is the difference between operational definition and technical definition?

A *technical definition* is a definition in the technical sense, while an *operational definition* includes information from the real world.

- ➔ So a technical definition might be an *automobile* is a machine with four wheels and includes details of the automobile that make it function.



- ➔ Operational definition would be an *automobile* is a car or truck that gets you around from place to place and carries cargo or passengers, and makes it easier to live in the city or provinces.



What could be their similarities?

Operational definition:

- **A definition that works for most practical purposes;**

Technical definition:

- **A correct and proper definition that is grammatically correct and sensible.**

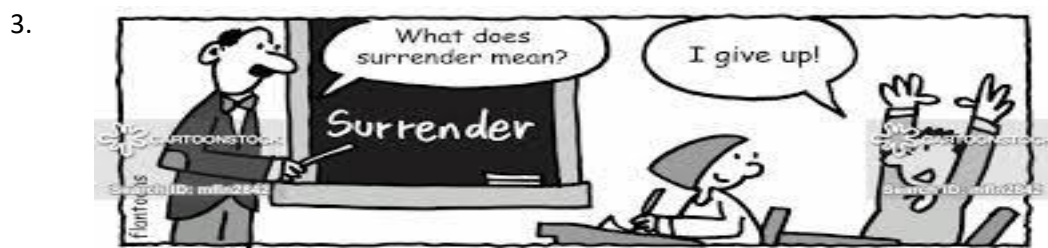
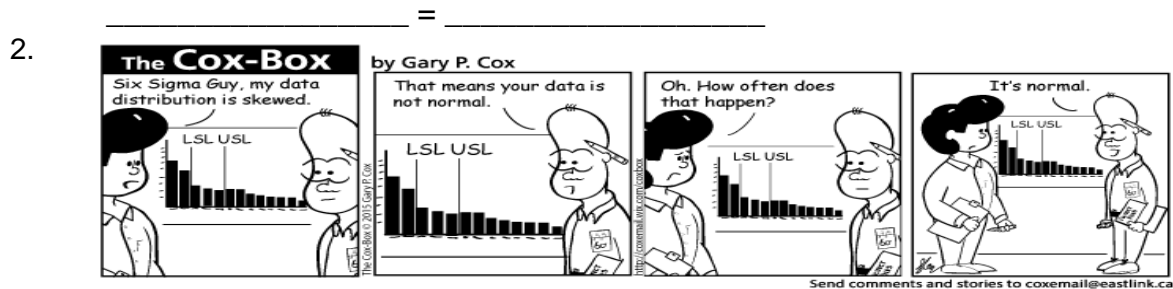


What's More

Now that we have discussed how to define technical and operational words. It is time to test whether you can do it all by yourself.

Activity 1: PICTURE ME OUT!

Direction: Analyze the caricatures and give the meaning of the words/terms used in the sentences that shows technical and operational definition. In a clean piece of paper, write the terms/words and beside it write if it is used as TECHNICAL or OPERATIONAL.



5.



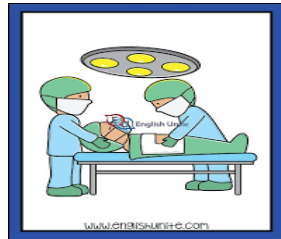
_____ = _____

In this activity, you will figure out how the words are defined based on context clues. Let us check if you can manage

Activity 2: GUESS ME!

Direction: Look at the clip arts below and guess what are the operational or technical terms you can associate with it. Identify each term if it is **TECHNICAL** or **OPERATIONAL**.

Example:



Term: Operation = Technical



1. _____ = _____



2. _____ = _____



3. _____ = _____



4. _____ = _____



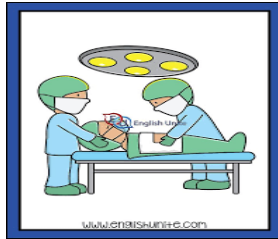
5. _____ = _____

Now that you managed to figure out the meaning. Why don't you use it in sentences?

Assessment 2

Direction: Use the terms guessed above in Technical and Operational sentences.

Example:



(Technical Term) My cousin had an *operation* last week.

(Operational Term) My cousin joined the military *operation* to hunt down anti-government.

2.



(Technical Term) _____

(Operational Term) _____

3.



(Technical Term) _____

(Operational Term) _____

4.



Technical Term) _____

(Operational Term) _____

5.



Technical Term) _____

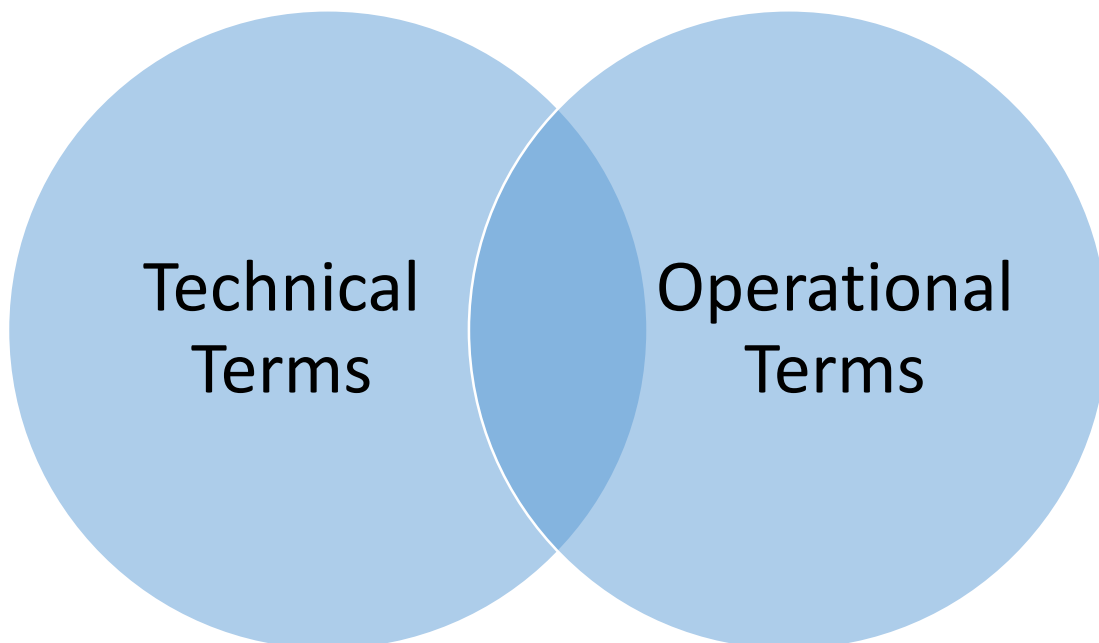
(Operational Term) _____



What I Have Learned

Now, it is clear to you how to differentiate operational from technical definitions. Why don't you summarize what you have learned in a Venn diagram?

Instruction: **Differentiate Technical Terms from Operational Terms** using the Venn Diagram. Write the similarities and differences of the 2 terms. Please write your answers in a clean piece of paper.





What I Can Do

Let's try to do more activities for us to make sure that we were able to really understand what we have studied. Try to answer another activity to make sure that we can achieve maximum retention.

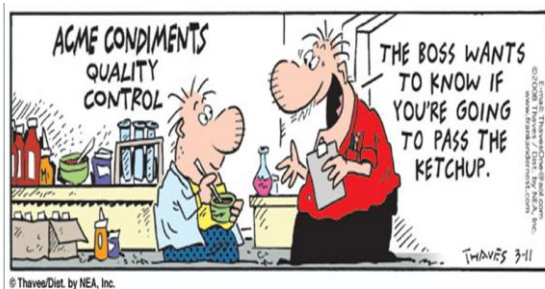
Instruction: Identify the terms used in the dialogues in the pictures. Write **Technical Term** if it used as technical, **Operational Term** if it is used as operational in the sentence.



1.



2.



3.



4.



5.

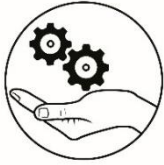


Assessment (Post)

Now that you have mastered differentiating technical from operational definition, it's time to check whether you have learned the concepts better.

Instruction: Identify the underlined words in the sentences below. Write **TECHNICAL** or **OPERATIONAL** depending how it used in the sentences. Please use a clean sheet of paper for your answers.

- _____ 1. The bank closes at 3pm daily.
- _____ 2. My father's operation was done successfully and is under recovery.
- _____ 3. Conglomerate boards of SM had decided to relieved the CEO from his position starting tomorrow.
- _____ 4. Students usually surfs the websites for answers of their modules.
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- _____ 6. The soldier's watch was over a minut ago when his reliever came.
- _____ 7. The soldier's watch was broken.
- _____ 8. My friend's promise was broken.
- _____ 9. My vase was broken by my cat.
- _____ 10. The fruit from the chico tree were eaten by the birds.



Additional Activities

Now that you were able to understand what Technical and Operational Definition is all about. Why not apply all that you have learned and understand? Do your best and have fun with a little bit of challenge.

Instruction: Construct sentences using the words below into Technical and Operational Terms.

1. BANK

(Technical) _____
(Operational) _____

2. ROCK

(Technical) _____
(Operational) _____

3. SHOP

(Technical) _____
(Operational) _____

4. COMPUTER

(Technical) _____
(Operational) _____

5. STOCK

(Technical) _____
(Operational) _____



Answer Key

Pre-assessment

1. TECHNICAL
 2. TECHNICAL
 3. OPERATIONAL
 4. OPERATIONAL
 5. OPERATIONAL
- Review
6. OPERATIONAL
 7. TECHNICAL
 8. OPERATIONAL
 9. TECHNICAL
 10. TECHNICAL

Activity 1

- | | |
|-----|---|
| 1. | C |
| 2. | B |
| 3. | A |
| 4. | A |
| 5. | B |
| 6. | B |
| 7. | C |
| 8. | A |
| 9. | D |
| 10. | C |

WHAT'S MORE

1. SPOILED – TECHNICAL
2. SKEWED – OPERATIONAL
3. SURRENDER – TECHNICAL
4. IN TWO PLACES – OPERATIONAL
5. AGGRESSIVE – OPERATIONAL

Activity 2: GUESS ME!

1. OPERATION – OPERATIONAL
2. WATCH – OPERATIONAL
3. WATCH – TECHNICAL
4. BANK – TECHNICAL
5. BANK – OPERATIONAL

Assessment 2 (Answers may vary)

WHAT I HAVE LEARNED

Differences: TECHNICAL OPERATIONAL

- definitions are taken from the dictionary - it is the application of the word

Similarities: Both Technical Term and Operational Term have the same structure.

WHAT I CAN DO?

1. TECHNICAL
2. TECHNICAL
3. OPERATIONAL
4. OPERATIONAL
5. OPERATIONAL

ADDITIONAL ACTIVITIES (answers may vary)

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