Writing Measurable Objectives

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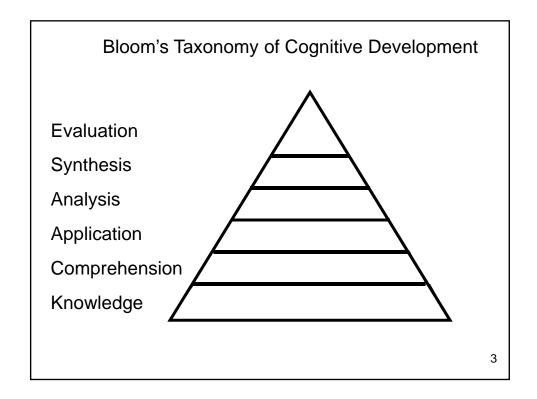


Objectives

- Program participants will be able to discriminate between goals and objectives using materials and handouts.
- Program participants will be able to describe three reasons to write learning objectives using materials and handouts.
- Program participants will be able to write measurable behavioral objectives using the ABCD model.
- Program participants will be able to diagnose problems with learning objectives and rewrite more measurable objectives
- Program participants will be able to apply the SMART model at the end of the program using the objective builder with no mistakes.

Learning Objectives

- In 1948 a group of educators began classifying educational goals and objectives
- Bloom's taxonomy of the Cognitive Domain was completed in 1956



Learning Objectives

- Robert Mager (1962) argued for use of specific, measurable objectives that both guide instructors and aid students in the learning process
- Mager's central concept is that a learning goal should be broken into a subset of smaller tasks or learning objectives

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Goals and Objectives Moving from General to Specific Goals General Specific Objectives

Goals

Writing goals can provide insight into outcomes desired but does not provide enough specificity for assessment and evaluation

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Goal Examples

- -"The essential role of the university is to train students to think critically and creatively."
- -"The student must develop information management skills which enable him to apply theoretical concepts in practice"

Goals and Objectives

- Goals are broad
- Objectives are narrow
- Goals are general intentions
- Objectives are precise
- Goals are intangible
- Objectives are tangible
- Goals are abstract Objectives are concrete
- Goals can't be validated as is
- Objectives can be validated

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Goal Examples

- To make the student capable of carrying out independently the various stages of an information science research project
- To make the student capable of reporting on the findings of his own research.
- To make the student mindful of applying rules of ethics in relation to research and publication.
- To make the student capable of drawing up a realistic work program.

Learning Objectives

A Learning Objective is a written statement of the measurable achievement a participant will be able to demonstrate as a result of participation in a learning activity.

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The Purpose of Learning Objectives

- To communicate to ourselves:
 - -What we intend for them to learn.
 - -The content and sequence of learning
 - -Whether participants have gained
 - appropriate skills,
 - attitudes,
 - and/or knowledge
 - -How successful an activity has been
- To communicate to participants:

The Purpose of Learning Objectives

- To communicate to <u>participants</u>:
 - What we intend for them to learn
 - so they can organize their efforts toward accomplishing the desired behavior
 - For self-selection purposes
- To communicate to other interested parties
 - The purpose and degree of success of our activities
 - Professional Accreditation Agencies, SACS, SCHEV

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Characteristics of a Learning Objective

- It is always expressed in terms of the learner.
- It is precise and supports only one interpretation.
- It describes an observable behavior
- It specifies conditions under which the behavior is performed
- It specifies criteria for accomplishment

Questions a good objective answers

- Audience: Who will be performing the behavior?
- Behavior: What behavior should the learner be able to do?
- Condition: Under what conditions do you want the learner to be able to do it?
- Degree: How well must it be done?

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ABCD Model

- Audience Identify who will be learning (not the instructor)
 - The Learner
 - The Staff member
 - The Student
 - The Participant
 - The Employee
 - The Trainee
 - The Organization Member
 - The Audience Member

- Behavior (Performance)
 - Should include an action verb indicating what the learner will be able to do
 - Should be something that can be seen or heard

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Overt vs. Covert Performance

Overt
 refers to any kind
 of performance
 that can be
 observed directly
 whether that
 performance is

visible or audible

 Covert refers to performance that cannot be observed directly, performance that is mental, invisible, cognitive or internal

When a performance is covert

 Add an indicator behavior to the objective that is covert

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ABCD Model (Behavior)

- "Learner will be able to" (LWBAT)
 - -Cognitive objectives
 - Psychomotor objectives
- "Learner will choose to" (LWCT)
 - Affective objectives

Action Verbs That Could Be Used When Writing Cognitive Learning Objectives

Knowledge define repeat record list recall name relate tell quote label name	Comprehension translate restate discuss recognize explain identify locate report review express summarize describe interpret predict distinguish differentiate	Application interpret apply use demonstrate practice illustrate operate schedule calculate complete show solve examine modify change relate	Analysis distinguish analyze differentiate appraise calculate categorize experiment test compare contract diagram relate solve examine separate classify	Synthesis compose plan propose design formulate arrange assemble collect construct organize manage prepare combine modify substitute	Evaluation judge appraise evaluate rate compare value revise score select choose assess estimate measure decide rank recommend
	1	-		2	
	differentiate	relate	classify		recommend
			arrange		convince
			divide		conclude
			select		

Covert Verbs

- know
- familiarize
- gain knowledge of appreciate
- comprehend
- study
- cover
- understand

- be aware
- learn
- become acquainted with
- realize

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Condition

- State the conditions you will impose when learners are demonstrating their mastery of the objective.
- -What will the learners be allowed to use?
- Under what conditions must the mastery of skill occur?

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Conditions

- Givens
- Resources
- Environment
- Directions
- Format
- Deadlines

- **Degree** (or criterion)
 - A degree or criterion is the standard by which performance is evaluated.
 - The power of an objective increases when you tell the learners the behavior must be done.

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- Accuracy/Tolerance
- Speed
- Number
- Reference or Standards
- Permissible Errors
- Degree of Excellence

Time Management

1. Cognitive Synthesis

The SWBAT create a weekly schedule given a weekly schedule form. The form must be legible and include the following: meals, sleep, classes, work, study hours, extra-curricular activities, commute time, and time to get ready.

2. Cognitive Knowledge

The SWBAT identify 5 of the 8 components of a weekly schedule.

3. Affective

The student will choose to (SWCT) endorse the use of a weekly schedule.

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SQ3R Reading Method

Cognitive Knowledge

The SWBAT identify the content and sequence of the SQ3R reading method.

Cornell Note-taking Method

Cognitive Knowledge

The SWBAT identify three elements of the Cornell note taking format.

Anger Management

Affective

The student will choose an effective alternate course of action from the techniques learned in the workshop.

Academic Advising

Cognitive - Knowledge questions:

Given a current catalog, a SWBAT indicate the resources available to answer a financial aid question.

Given a current catalog, a SWBAT identify the specific elements of the general education requirements.

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Diagnosing Objectives

Participants will be able to name two reasons why objectives are important without handouts or notes.

Diagnosing Objectives

Participants will be able to apply the ABCD Model to their course objectives and syllabus prior to fall semester

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Diagnosing Objectives

Participants will be able to diagnose learning objectives without handouts when given a sample objective with 100% accuracy.