

Tips for Writing Learning Objectives

A **learning objective** is a statement that describes the *knowledge*, *skills*, *and/or abilities* that participants *will gain* from the educational activity.

WHEN DEVELOPING OBJECTIVES, ASK THESE QUESTIONS

- 1. What should the result of the educational activity be for participants?
- 2. What should the participant be able to do?
- 3. What should the participant know?

HOW TO WRITE LEARNING OBJECTIVES

Learning objectives should:

- Be congruent with the identified gaps
- Reflect the continuing medical education (CME) mission of the American College of Surgeons (ACS), with a minimum of *improving competence*
- Be in a learner-centric format versus a faculty- or instruction-centric format
- Be measurable (e.g., do not use "understand," "know," etc., as these are not measurable verbs)
- Consist of only one action or outcome
- Follow the Kern and Thomas Approach:¹ Who will do how much (how well) of what by when?
 - Who = The participant, learner, provider, physician, etc.
 - Will do = What do you want them to do? Describe the expected, observable action/behavior.
 - How much (how well) = How well should the action/behavior be done? (*if applicable*)
 - Of what = What do you want them to learn? Describe the knowledge that should be gained.
 - By when = End of the course, etc.

Examples

Upon completion of this learning activity, participants should be able to:

- Assess a patient's condition accurately and in a timely manner.
- Identify the correct sequence of priorities used when assessing a traumatically injured patient.
- Demonstrate central venous catheter placement at a mastery level.
- Identify all essential equipment needed when managing a patient with a difficult or potentially difficult airway.

¹ Ken DE, Thomas PA, Hughes MT, eds. Curriculum Development for Medical Education: A Six-Step Approach. 3rd ed. Johns Hopkins University Press; 2010.



100+years

WHY DEVELOP LEARNING OBJECTIVES?

Through the Accreditation Council for Continuing Medical Education (ACCME), the ACS is an accredited provider of CME. As an accredited provider, ACS is responsible for ensuring that all CME programs have learning objectives to:

- 1. Guide the design and development of the educational activities
- 2. Provide clear expectations for the educational activity to the learners, and
- 3. Provide measurable outcomes in terms of *knowledge*, *competence* (*knowledge* in action), and/or *performance* (*what one does in practice*).

VERBS TO USE: BLOOM'S TAXONOMY

The verb list below has been found to be effective in formulating learning objectives; it is from Bloom's Taxonomy by Benjamin S. Bloom, originally published in *Taxonomy of Educational Objectives* (1956).²

Knowledge		Competence		Performance		Evaluation		Avoid
Information	Comprehension	Application	Analysis	Synthesis	Evaluation	Skills	Attitudes	Avoid (unmeasurable)
choose cite count define describe draw identify indicate label list locate match name point quote read recall recite recognize record relate repeat retrieving select state tabulate tell trace write	associate clarify classify compare compute contrast convert describe diagram differentiate discuss distinguish draw estimate explain express extrapolate identify interpolate identify interpolate interpret locate outline paraphrase predict report restate review sort summarize translate	adapt apply calculate catalogue chart complete consolidate demonstrate develop employ examine extend generalize illustrate infer interpolate interpolate interpret locate manipulate modify operate order practice predict prepare produce relate report restate review schedule sketch solve submit tabulate transcribe translate use utilize	analyze appraise audit break down calculate categorize certify compare contrast correlate criticize debate deduce defend detect diagram differentiate distinguish examine experiment infer inspect inventory investigate question reason separate solve summarize survey test uncover verify	arrange assemble build collect combine compile compose conceive construct create design detect devise discover draft formulate generate integrate manage organize plan predict prepare proscribe produce propose reorder reorganize set up specify structure synthesize	appraise approve assess choose conclude confirm criticize critique diagnose estimate evaluate generalize grade judge justify measure prioritize prove rank rate recommend research resolve revise rule on score select support test validate	diagnose empathize hold integrate internalize massage measure palpate pass percuss project visualize	acquire consider exemplify modify plan realize reflect transfer	appreciate approach be aware be familiar with become believe comprehend conceptualize experience explore grasp the significance of grow improve increase know learn thinks critically understand

² Bloom BS. (1956). Taxonomy of educational objectives: The classification of educational goals. New York, NY: Longmans, Green.





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