

Developing Learning Objectives

Presented by: Steve Garwood, Ed.D. Director, Faculty Development, RowanSOM 10/29/2021



Disclosures

• No financial relationships or other conflicts of interest to report



Webinar "Housekeeping"

- All muted
- Please ask Questions in the Chat (or Unmute)
- Chat Everyone

Recommended: To get the most out of this workshop, please have available learning objectives that you have used or will use for an upcoming learning experience (e.g., didactic session).





Section - Introduction

- Learning Objectives
- Definitions
- Context





Learning Objectives

Upon completion of this workshop, attendees will be able to:

- 1. Recognize the educational value of writing meaningful learning objectives
- 2. Develop SMART learning objectives for a range of activities and audiences
- 3. Utilize frameworks such as Bloom's Taxonomy, the ABCD method, and Miller's Pyramid/Prism to align objectives with goals and assessments
- 4. Review instructional materials and approaches to ensure objectives are adequately addressed





(My) Definitions

- Purpose focus, e.g., Accreditors
 - ACGME, AOA (CME)
- Generally
 - Goals Broad, Presenter focused
 - Objectives Narrow, Participant focused

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(My) Definitions - Examples

• Goal

• Get in Better Shape

• Objectives

By 9/1/21, I'll:

- Decrease my body fat percentage to <20%
- Complete a 5K in <27 minutes

• Are these objectives SMART?

- \circ Specific
- Measurable
- Achievable
- Results-focused/Relevant
- \circ Time-focused

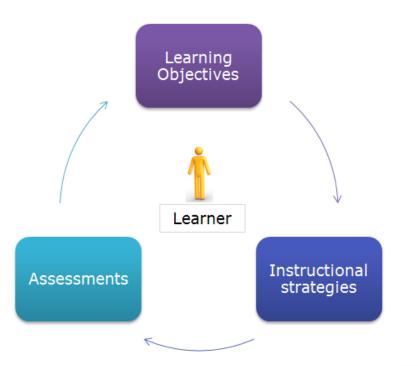
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Context

- Begin with the end in mind*
- Prepare for what's next (short term)

- *Covey, S. R. (2004). The 7 habits of highly effective people: Powerful lessons in personal change. Simon and Schuster.
- *Wiggins, G. P., Wiggins, G., & McTighe, J. (2005). *Understanding by design*. ASCD.





Section/LO#1 - Value of Learning Objectives





Activity

Value of Learning Objectives

• What is the educational value of having meaningful learning objectives?

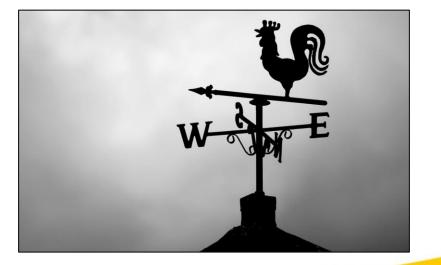
Please select "Everyone" in Chat and submit your response





Section/LO#1 - Value of Learning Objectives

- Indicate What's Important
- Provide a Destination
- Alignment of
 - \circ Activities
 - Assessments
- Ensure Value of Resources
- Evaluation of Learning Activities
- Accreditor/Organizational Needs





Activity - Review your LOs

Value of Learning Objectives

- Do you use your learning objectives to indicate the educational value of your learning activity?
- Do you review LOs with your audience?
- Do you incorporate your LOs into your presentations and other learning activities?
- Do you go back and check if you've met objectives as you teach?

No need to answer these, but please consider





Section/LO#2 - Develop SMART Learning Objectives

SMART

- Specific
- Measurable
- Achievable
- Results-focused/Relevant
- Time-focused

Introductory Language

Upon completion of this XXX, XXX will be able to:





Verbs (Bloom's Taxonomy)

Active verbs developed based on Bloom's Taxonomy

Retrieved from https://www.mesacc.edu/employees/course-management/curriculum/resources/bloomshigher-level-verbs



Activity - Improve these learning objectives

- 3 Examples
- Apply SMART as needed
- What determines verb?

Examples from introductory level Feedback Workshop

Please select "Everyone" in Chat and submit your response

- Why not SMART?
- How would you improve it?





Activity - Improve these learning objectives #1

Upon completion of this workshop, attendees will be able to:

 Understand the Ask-Tell-Ask and One Minute Preceptor methods of providing feedback

SMART

- **S**pecific
- Measurable
- Achievable
- Results-focused/Relevant
- Time-focused

Please select "Everyone" in Chat and submit your response

- Why not SMART?
- How would you improve it?



Activity - Improve these learning objectives #2

Upon completion of this workshop, attendees will be able to:

• Demonstrate expertise at delivering feedback to all levels and types of learners

Please select "Everyone" in Chat and submit your response

- Why not SMART?
- How would you improve it?

SMART

- **S**pecific
- Measurable
- Achievable
- Results-focused/Relevant
- Time-focused



Activity - Improve these learning objectives #3

Upon completion of this workshop, attendees will be able to:

• Summarize qualities of effective feedback, describe practices for delivering feedback for growth and learning, and identify frameworks/models for providing feedback

SMART

- **S**pecific
- Measurable
- Achievable
- Results-focused/Relevant
- Time-focused

Please select "Everyone" in Chat and submit your response

- Why not SMART?
- How would you improve it?



Activity - Review your learning objectives

- Are your objectives SMART?
- What's needed to improve them?

Please select "Everyone" in Chat and submit your response

• What aspect of SMART do you most need to work on?

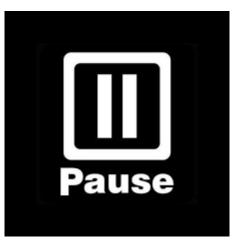
SMART

- Specific
- Measurable
- Achievable
- Results-focused/Relevant
- Time-focused





Pause for Questions/Comments





Section/LO#3 - Bloom's Taxonomy, the ABCD Method, and Miller's Pyramid Frameworks

- Bloom's Taxonomy
- ABCD Method
- Miller's Pyramid

Alignment

- Connection between Objectives, Assessments, and Instructional Methods
 - Consider Levels

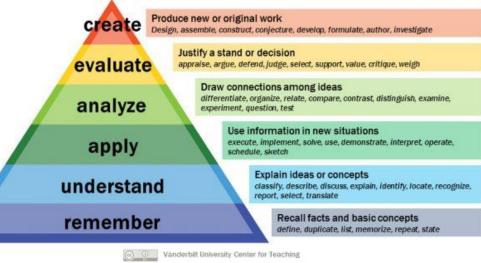




Section/LO#3 - Bloom's Taxonomy

- Industry Standard
- Classification of LOs
- Lower-Higher Order
 - Knowledge/Remember
 - Understand
 - Apply
 - Analyze
 - Evaluate
 - Create
- Align verbs to assessment level

Bloom's Taxonomy



Retrieved from: https://cft.vanderbilt.edu/guides-sub-pages/blooms-taxonomy/



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Retrieved from https://www.mesacc.edu/employees/course-management/curriculum/resources/bloomshigher-level-verbs



Section/LO#3 - The ABCD Method

- Structure for Learning Objectives
- ABCD
 - Audience, Behavior, Condition, Degree
- Example
 - **C**ondition
 - Upon completion of Lecture/Clerkship/...
 - Audience
 - Participants/Students/PGY1s
 - (will be able to)
 - Behavior
 - Describe/Critique/Create a () SOAP Note
 ()
 - Degree
 - Concise
 - In less than XX minutes



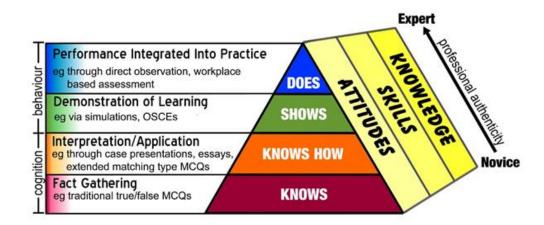
Retrieved from:

https://www.pinterest.com/pin/697002479822804689/



Section/LO#3 - Miller's Pyramid/Prism

- Framework for assessing clinical competence
- Provides Clinical focus
- Cognition Behavior
 - Knows
 - Knows How
 - Shows
 - Does



Retrieved from: <u>https://icenetblog.royalcollege.ca/2020/03/03/education-theory-</u>made-practical-volume-4-part-5-millers-pyramid/



ACTIVITY- Utilizing Frameworks

 How can you utilize Bloom's, Miller's, or the ABCD method to align your objectives with assessments?.

Please select "Everyone" in Chat and submit your response





Section/LO#4 - Review instructional materials and approaches

Options/Ideas:

- Review
 - Learning Objectives
 - Assessments
 - Activities
 - Resources Readings, Visuals

Coverage, Connection, and Cohesion

- 1. Do all items have a purpose?
- 2. Do LOs, Assessments, and Activities connect and align?
- 3. How will you evaluate during and after the learning experience?





Activity- Coverage, Connection, and Cohesion

Were these covered, connected, cohesive?

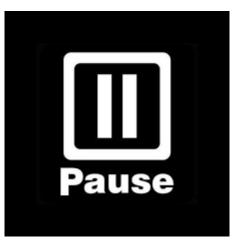
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- Develop SMART learning objectives for a range of activities and audiences
- Utilize frameworks such as Bloom's Taxonomy, the ABCD method, and Miller's Pyramid to align objectives with goals and assessments
- Review instructional materials and approaches to ensure objectives are adequately addressed

Please select "Everyone" in Chat and submit your responses to the questions I pose





Pause for Questions/Comments





Review & Thank You!

Learning Objectives:

Upon completion of this webinar, attendees will be able to:

- 1. Recognize the educational value of writing meaningful learning objectives
- 2. Develop SMART learning objectives for a range of activities and audiences
- 3. Utilize frameworks such as Bloom's Taxonomy, the ABCD method, and Miller's Pyramid to align objectives with goals and assessments
- 4. Review instructional materials and approaches to ensure objectives are adequately addressed
- Thank you!
- Be Kind and Embrace the Times...





References

 Association of American Medical Colleges. (1998). Learning objectives for medical student education: guidelines for medical schools.

https://www.aamc.org/system/files/c/2/492708learningobjectivesformedicalstudenteducation.pdf

- 2. Journal of graduate medical education, 3(4), 574-576 Communicating your program's goals and objectives. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3244330/</u>
- 3. Weill Cornell Medicine Medical College Importance of Learning Objectives. <u>https://medicaleducation.weill.cornell.edu/medical-</u> education/instructional-design-services/importance-learningobjectives





Notes

Images from:

- Product websites
- Slide Images: <u>https://www.pexels.com/</u>

References and Resources available from:

Handout - <u>http://bit.ly/SOMGME-LearningObjectivesh</u>



END



Title: Sub-title

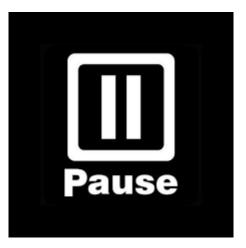
Header

- Content
- Content





Questions/Comments





Activity

Activity Title

• Do you ...?

Please select "Everyone" in Chat and submit your response

