

Faculty Guidance

Helpful Hints on Session Development

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ACPE Compliance

ASHP provides quality education products and programs that are free from commercialism and bias. ALL CE PRODUCTS and PROGRAMS MUST INCLUDE AN ACTIVE LEARNING STRATEGY AND LEARNING ASSESSMENT FOR EACH PROGRAM OBJECTIVE in compliance with standards passed by the Accreditation Council for Pharmacy Education (ACPE). ACPE is the body that accredits ASHP as a provider of continuing pharmacy education.

As a presenter, you share ASHP's mission to provide the best educational products and/or programs for all customers. Maintaining ACPE accreditation status is vital to ASHP's mission. If you would like more information about the, review the ACPE Standards.

As you are developing your session, keep the following in mind:

- Sessions should aim to be hands-on with tools and resources, and frame concepts around cases and case-based learning.
- Sessions that are not held in a live format should include demonstrations, self-reflective questions, worksheets or other supplemental materials that can be accessed and used during the session to encourage active learning.
- Sessions should aim to be interactive and practical with tools and concepts that are immediately applicable.
- Sessions targeted at more experienced practitioners should aim to be advanced/high level.

Before Preparing Your Learning Objectives

Learning objectives set the tone and direction for what participants are expected to do and learn during the educational program. Before preparing your learning objectives, have a clear picture of the desired learning outcome. Consider the following question and answers as starting points for creating your learning objectives and session content:

Is the intent of this education program to?

- ✓ Provide new knowledge
- ✓ Enhance cognitive skills
- ✓ Develop psychomotor skills
- ✓ Strengthen problem-solving
- ✓ Change attitudes and beliefs



Preparing Your Learning Objectives

- Create objectives that are specific and measurable or observable. For example, you *cannot* observe whether a learner comprehends information. You *can* measure *or* observe if a learner can accurately list, classify, or compare information.
- Objectives must be supported by the instruction in the educational program. If you are not going to teach it, do NOT create an objective for it.
- Good learning objectives define the behavior learned as a result of attending the educational program, not what the program will teach.
 - Wrong: The objective of this article is to teach how to write effective cognitive educational objectives and multiple-choice test questions.

- Right: After reading this article, readers will be able to explain guidelines for writing effective cognitive educational objectives and multiple-choice test questions.
- Do not use abbreviations or acronyms in learning objectives (e.g. VTE). Instead, spell it out.

Examples of Terms to Use for Learning Objectives							
KNOWLEDGE	COMPREHENSION	APPLICATION	ANALYSIS	SYNTHESIS	EVALUATION		
			Critical Thinking	Critical Thinking	Critical Thinking		
Cite	Classify	Apply	Analyze	Categorize	Assess		
Define	Convert	Assign	Apply	Combine	Choose		
Describe	Describe	Change	Calculate	Compose	Compare		
Identify	Discuss	Choose	Categorize	Construct	Conclude		
Label	Distinguish	Interpret	Choose	Create	Contrast		
List	Estimate	Modify	Compare	Counsel (a	Counsel		
Match	Give example(s)	Predict	Contrast	patient-Tell)	Critique		
Name	Identify	Produce	Differentiate	Design	Estimate		
Order	Paraphrase	Show	Identify	Develop	Evaluate		
Recognize	Predict	Solve	Interpret	Plan	Justify		
Recall	Recognize	Use	Prioritize	Recommend	Interpret		
Repeat	Rewrite		Select	(Tell)	Rate		
Select	Select		Separate	Summarize	Predict		
State	Summarize				Select		
					Summarize		
					Rank		
					Rate		
					Recommend		
					Validate		

Active Learning & Learning Assessment

All CE sessions are required to incorporate **active learning strategies**, as well as a **learning assessment** for *each* of your session learning objectives. Active learning strategies engage the audience in the activity and should be appropriate for your session type as outlined in the table below. Learning assessment involves feedback to learners on how well they have answered questions or completed a learning exercise, such as a case study.

Matching Active Learning Strategies to Activity Type

Below are ideas on how to incorporate active learning into your session. This list should serve as a guide and is not meant to be comprehensive.

Active Learning Strategy	Knowledge-Based Activity	Application-Based Activity
Lecture with questions	✓	✓
Games and quizzes to practice recall	✓	✓
Demonstration		✓
Example with practice		✓
Interactive case study		✓
Interactive scenario		✓
Role play		✓
Simulation		✓
Application exercises		✓
Practice exercises		✓

Assessment of Learning and Assessment Feedback

	Knowledge-Based Activity	Application-Based Activity
Assessment of Learning	Must include assessment questions	Must include case studies
	structured to determine the recall	structured to apply the principles
	of facts based on the learning	learned based on the learning
	objectives. Techniques can be	objectives.
	informal such as audience response	
	systems, color cards, or the raising	
	of hands.	
Assessment of Feedback	Feedback may include the correct	Feedback may include the correct
	response to questions. For	evaluation of case studies. When
	incorrect responses, communicate	responses are incorrect, explain the
	that a question was answered	rationale for the correct response.
	incorrectly and provide rationale	
	for the correct response.	

Preparing Self-Assessment Questions and Answers

Develop one question/answer for each objective.

- Questions must be written either in multiple-choice or true/false format.
- Questions must be simple, clearly stated, and relate only to the educational objective for which they were designed.
- Pose the question in the affirmative; avoid the use of negative statements such as "not" and "except" because they often confuse the learner.
- Answer choices should be specific and distinct, and not overlap with the other answers.

For More Information on Developing a Quality Program

Please visit ASHP's **For Presenters** website where you will find tools and resources to assist you in the development of a quality educational program reflective of ACPE Standards and ASHP's educational guidelines.

Visit: https://www.ashp.org/Meetings-and-Conferences/Get-Involved-in-a-Meeting/For-Presenters

Appendix A: Sample Active Learning Strategies

Polling

In a live format session, get to know your learners by asking about who is in the audience. Examples: "By a show of hands, how many clinical specialists are in the audience?

- How many directors?
- How many from small/rural hospitals?
- How many from the west coast?
- How many have implemented an informatics program before?
- How many have some experience with medication reconciliation?"

Choose factors about the audience that are relevant to your topic and poll so that you and your learners can see who is there. Polling can ask questions about what the learners are doing related to the material. Relate the responses to the polling questions to the session topic.

Examples:

- "How would you describe your level of implementation of medication reconciliation processes? High? (show of hands) Medium? Low? Today you'll learn how to increase the implementation of these programs."
- "How many of you have an emergency pharmacist in your ED?" How many are full-time? How many are more than half-time? How many are less than half-time? In today's session we'll show you how to get support for increasing pharmacist time in the ED."

This method can be used with an electronic Audience Response System (ARS) or with the "low-tech" version: hand-raising.

ARS polling may not be available in the virtual format. If that is the case, you may be asked to adjust your questions to be self- reflective. Give your attendees a few moment to consider the question and response. If the question has a correct or incorrect response, you may then discuss whey the correct choice was the right one and if appropriate, why the incorrect choices were not.

Self-Assessment

Have the participants complete a self-assessment tool that gives them insight into their current knowledge or skill level and helps them identify their need for the information the session will be covering. The tool can be formal (a commercially available instrument, such as the "Insight Inventory" for leadership skills (Insight Institute, Inc.) or an informal self-created scale that may, for example, ask participants several questions about their level of skill or experience in different aspects of your topic. For example, an informal self-assessment of presentation skills asks participants to rate their level of agreement with statements such as, "I make appropriate use of gestures when appropriate." and "I make eye contact with audience members."

Questions / Quizzes / Tests / Games

In a live format session, ask multiple-choice or true/false questions. Have participants raise their hands for the different response options or simply have them note their answer privately, then provide the answer.



Questions can be used at the beginning, during and/or at the end of a session. Pre- and post-test questions can be used to start and end a session. Questions can be turned into a game such as "Jeopardy" by giving the answer and asking participants to identify the question. An example of a question used at the 2008 Summer Meeting Joint Commission session by speaker Darryl Rich was:

"For MM.2.20 – Medication Storage, which of the following was the top compliance issue scored on 2007 surveys:

- A. Refrigerator temperature checks
- B. No policy on how medications handled from removal/dispensing to medication administration and returned if not used.
- C. Medication Security
- D. Narcotic Control & Wastage"

A "Jeopardy" question in a session on active learning strategies was:

The answer is: "A hand-raising activity good for engaging an audience at the beginning of a session." The question is: "Polling."

Quizzes, tests or games may not be available in the virtual format. If that is the case, you may be asked to adjust your questions to be self-reflective, or utilize worksheets to "add up your scores". For self-reflective questions, give your attendees a few moment to consider the question and response. If the question has a correct or incorrect response, you may then discuss whey the correct choice was the right one and if appropriate, why the incorrect choices were not. For scoring responses, remind attendees at the start that they will be keeping score using the provided worksheets. Be sure to conclude the scoring and review the scores at the end of your session to complete the activity.

Interactive Scenario

A scenario describes a situation to be effectively resolved, requiring the skill(s) being taught in an educational program. The participants discuss what they think should be done in the situation. An expert gives feedback to participants. Participants can discuss in small groups, then report their ideas to the whole group. You, as the expert, give feedback on whether or not their ideas are likely to be effective. In addition, fellow participants can share experiences and feedback.

For example, for a program for supervisors on performance appraisal skills, describe a problem employee and ask how they can be most effectively managed during their performance review.

Application Exercise

In an application exercise, participants are asked to apply, or think about how they will apply, what they have learned. Participants may do this type of exercise independently, such as by filling out a worksheet designed beforehand for this purpose, or they can be asked to discuss it with others near them.

For example, participants can be asked to list challenges and obstacles they may face and strategies for overcoming the obstacles when implementing an informatics project, or they could form small groups and list steps they will take to apply something in practice that they have learned in the session. An advantage of working with others is that participants can brainstorm together and hear different perspectives.

Interactive Case Study

Present a case in which you ask the participants to answer questions about the patient and their treatment. For example, what information do they need about the patient? What treatment do they recommend? How would they handle new developments in the case that you describe to them?

