

Basics of Instructional Design

Course Manual



Revised 06/27/2018

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COURSE DESCRIPTION

This one-day course is designed to help subject matter experts and other non-trainers develop training for their agencies. Participants will discuss and apply instructional design models, adult learning principles, multiple intelligence theory, and learning preferences to determine training needs and create effective and engaging training.

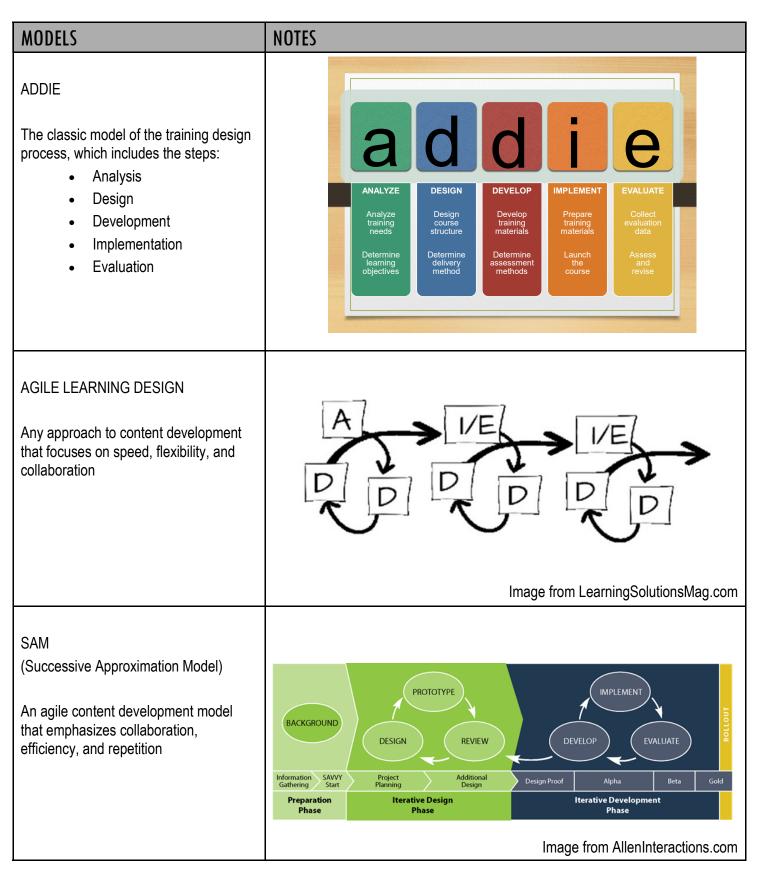
This course is part of the Master Trainer Certificate.

LEARNING OBJECTIVES

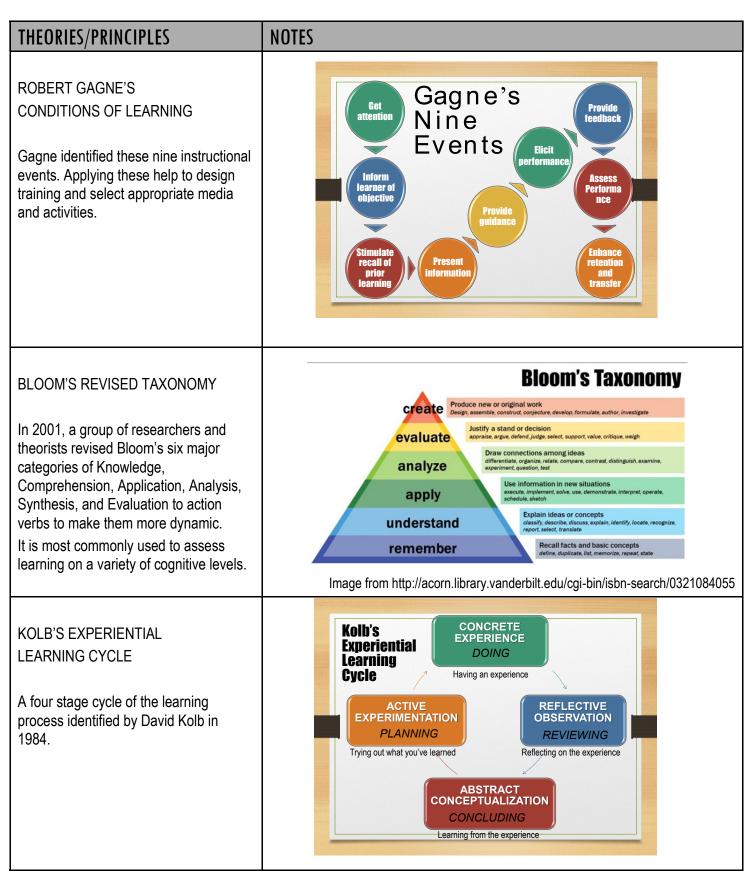
By the end of this workshop, attendees will be able to:

- Apply the concepts of instructional design
- Design and develop effective training materials
- Select activities and tools that will aid in the understanding of course topics
- Evaluate training for improvement and revisions

LEARNING MODELS AND CONCEPTS YOU NEED TO KNOW



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THEORIES/PRINCIPLES	NOTES			
LEARNING STYLE INVENTORY		VISUAL	AUDITORY	KINESTHETIC
The three styles of learning include visual, auditory, and kinesthetic (hands-on) learning.	When spelling	Do you try to see the words?	 Do you say the words aloud? 	Do you write words to fin- if they feel right?
Some basic preferences that can indicate learning styles include:	When speaking	 Do you prefer words like: see, picture, image 	 Do you prefer words like: hear, tune, sounds? 	 Do you prefer words like: feel, touch, hold
	When reading	Do you like descriptive scenes?	Do you enjoy dialog?	Do you prefer action stories?
	When learning software	Do you prefer pictures and diagrams?	Do you call the help desk?	Do you prefer to work throug it yourself?
	When trying to concentrate	Are you distracted by untidiness or movement?	 Are you distracted by sound or noise? 	 Are you distracted b movement near you?
BLENDED LEARNING Training initiatives that include using a variety of learning formats, including digital, web-based, job aids, assessments, and face-to-face training.	Blend Learr	videos	earning Workbooks Manuals Carner Online quiz Exams	

Key Terms

KEY TERMS	NOTES
COMPETENCIES	Behaviors that demonstrate the knowledge, skills, and abilities as levels of performance in the workplace. (Formal definition: A competency is a set of defined behaviors that provide a structured guide enabling the identification, evaluation, and development of the behaviors in individual employees.)
COURSE	A planned series of learning experiences on a specific topic or group of tasks
E-LEARNING (Electronic Learning	Term covering a wide set of applications and processes, such as web-based learning, computer-based learning, virtual classrooms, audio programs, videos, and more
ILT (Instructor-led Training)	Traditional classroom training with an instructor/facilitator and students
INFORMAL LEARNING	Learning that is not formally defined and takes place in locations ranging from the workplace to social media
KSAs (Knowledge, Skills, and Abilities)	Knowledge, skills, and abilities (See competencies)
M-LEARNING (Mobile Learning)	Learning that takes place on wireless devices such as smart phones and tablets
MODULE	A unit, especially one that can stand alone, to be learned independent of other units
OBJECTIVES	Training objectives state what will be accomplished as a result of the training.
SME (Subject Matter Expert)	An individual who is proficient in a specific topic area
UNIT	A major subtopic, task, or task cluster to be learned within a course
WBT (Web-based Training)	Delivery of educational content via a Web browser, internet, or intranet

AnurzeDesignDesig

Your task is to study your assigned steps of ADDIE below.

- Your group will discuss the notes on the page.
- You'll decide why you feel this step is important to the instructional design process.
- And you'll add anything else you might want to do during this step of instructional design.
- Then you'll be prepared to share your information with us when we get to your step in the course today.

ADDIE	NOTES
ANALYZE	 Gather data Analyze training needs Identify learner's existing knowledge and skills Analyze skill gaps Define learning objectives Identify timeline and delivery options Continually communicate with stakeholders and revise plans as needed
DESIGN	 Determine how training will be delivered Identify and plan the topics Decide on the order of topics Select training activities to support learning Select media to be used Continually communicate with stakeholders and revise plans as needed
DEVELOP	 Develop the content Create slide presentation, audiovisuals, and other graphics Complete handouts and course materials Build the learning activities Ensure all elements support the objectives Continually communicate with stakeholders and revise plans as needed
IMPLEMENT	 Create plan to roll out training Train others who will be facilitating the courses Finalize all course logistics (location, equipment, etc.) Utilize checklists to ensure all preparations are complete Communicate with potential learners Register and confirm attendees Present training Continually communicate with stakeholders and revise plans as needed
EVALUATE	 Have learners complete evaluation Review test results if applicable Observe behaviors to measure results Continually analyze results to determine course revisions Continually communicate with stakeholders and revise plans as needed

BASICS OF INSTRUCTIONAL DESIGN - ANALYZE

NEEDS ASSESSMENT

NEEDS ASSESSMENT

What symptoms suggest that a change is needed?

What is the intended result of this training?

Why is this important?

Who requested this training?

AUDIENCE

Who is the intended audience for this training?

What is the difference between what they do now and what they will be able to do after completing this training?

What is their current knowledge level of the topic?

OBJECTIVES

Your group will use the information on page 9 to create three objectives for your class.

By the end of this training, participants will be able to... (Action Verb + Activity)

- •
- •
- •

CREATING OBJECTIVES

What do you want attendees to be able to do upon completion of this course? How will you be able to measure this?

Think about these questions:

- What are the most important concepts or skills that trainees need to understand or be able to do by the end of the class?
- Why are these concepts and skills important?
- How will you know that they have understood these correctly?

Characteristics of Well-Written Objectives

- PERFORMANCE: States what the learner will be able to do.
- CONDITIONS: Sometimes performance alone is not enough to explain the desired objective. In these cases, objectives will include the conditions under which the performance is expected to occur.
- CRITERIA: Using SMART concepts (Specific, Measurable, Achievable, Relevant, Time-bound) can help determine the level of performance that is considered acceptable.

ACTION VERBS	FOR OBJECTIVES
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REMEMBER	UNDERSTAND	APPLY	ANALYZE	EVALUATE	CREATE
cite	ite describe		apply analyze c		assess
define	discuss	demonstrate	calculate	build	check
label	explain	employ	categorize	compose	choose
list	identify	interpret	diagnose	design	compare
name	locate	operate	distinguish	establish	estimate
recall	report	perform	inspect	manage	measure
recognize	review	practice	relate	organize	rate
state	summarize	schedule	solve	plan	review
tell	tell	Use	test	prepare	select

BASICS OF INSTRUCTIONAL DESIGN - DESIGN

DESIGN CONSIDERATIONS

DELIVERY METHODS

Select which formats will best support the information being shared.

- Instructor-led
- Web-based
- Computer-based
- Documentation/Job Aids
- Other:

TOPICS TO BE COVERED

Determine the main topics that will support the objectives.

INTERACTIVITY

Select methods to practice and assess understanding of information for each topic listed in the content outline.

- Discussion
- Demonstrations
- Learning Activities
- Observation
- Feedback
- Tests
- Assessments



ORGANIZING CONTENT

Sample Organizational Methods for Course Content:

- Tasks
- Topics
- Problem and solution
- Step by step
- Simple to complex
- Overview to detail
- Specific to general
- Known to unknown
- Present to future

Which organizational methods will you use for your course?

Create a draft of that order below:

	RESEARCH					
METHOD	DESCRIPTION	 When would this method of research be good to use? Would it be good to define a process or procedure? Would it help gain buy-in from potential attendees? What could be a drawback in using this form of research? Would this work for your case study? 				
INTERVIEW	Discussion with the person who requested the class can help to find information that needs to be included in the course content.					
SME SURVEYS	Surveys or questionnaires of Subject Matter Experts (SMEs) can be used as a method to identify best practices and detailed information about the topic and processes.					
DISCUSSION	Casual discussions with those involved in the topic can produce more candid information than a formal survey.					
FOCUS GROUP	Formalized discussions with those involved in the topic allows interaction between viewpoints and can enhance buy-in for the course.					
DOCUMENTATION	Review of materials, manuals, and job aids can be useful in determining what information is currently available and what will have to be researched and developed.					
OBSERVATION	Observation of the current processes may be structured by having employees perform specific tasks or it can be unstructured by observing without influencing the employee's actions.					
OTHER	Traditional research methods, such as online investigation and publications, can help determine what others have discovered about the topic.					

LEARNING ACTIVITIES

If you're dealing with hands-on or kinesthetic learners, these activities can help learning occur:	If you're dealing with auditory learners, these activities can help learning occur:	If you're dealing with visual learners, these activities can help learning occur:		
Role playing	Mini-Lectures	Slide presentations		
Handouts	Question/Answer sessions	Handouts		
Role playing/games	• Videos	• Videos		
Hands-on demonstrations	Demonstrations	Demonstrations		
Group or individual projects	Group or individual projects	Posters, graphics		
Writing on flipcharts/boards	Panel discussions	Writing on flipcharts/boards		
Practicing with tools	• Music	• Lists		
Coaching	Coaching	Reference materials		
Written tests	Oral tests	Written test s		
Interactive computer simulations	Interactive computer simulations	Interactive computer simulations		

SAMPLE LEARNING ACTIVITIES	NOTES
Case studies	Groups read a real job-related case study and apply what they just learned to determine the course of action.
Discussions	Small group discussions can be a good way for more reserved attendees to feel comfortable discussing the topic. It also also experienced attendees to share knowledge with others.
Icebreakers and Energizers	These activities are designed to either allow the group to get acquainted and become more comfortable with each other or to help raise the energy level of a group. There are numerous collections online and in publications.

LEARNING ACTIVITIES (CONTINUED)

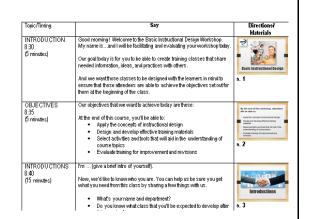
SAMPLE LEARNING ACTIVITIES	NOTES
Role Plays	Participants act out a situation that relates to the topic or uses information that has been learned in the session.
Question and Answer Sessions	Informal question and answer sessions can be effective when the session is updating skills rather than teaching new skills.
Quizzes	Oral or written quizzes can be used as reviews for sections of the course and to assess understanding of the material that has been presented.
Games	Various games can be used to introduce topics or to reinforce or review training materials.
Teach backs	Attendees teach something they have learned in the session to other attendees.

TRAINING MATERIALS

SCRIPT

Create instructional guides that detail the timing, materials, and activities that will be used in the course

- May include specific scripting for others who will be teaching the class
- May also include images of slides to help facilitator ensure he/she is at proper place in program
- May include additional information and resources for facilitator's understanding of the topic



HANDOUTS

Create handouts with information, spaces for writing, and tools to support activities and transfer of learning into workplace

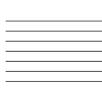
- Manuals that outline the session information to serve as a resource and a place to take notes
- Job aids can include checklists, documentation, and review pages
- Case studies allow participants to practice the workshop information in a real world situation
- · Assessments to self-assess current skills or skill gaps
- Evaluations so that attendees can determine the success of their learning experience







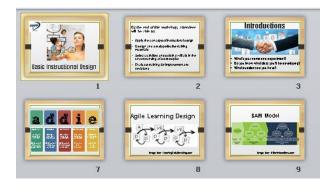




SLIDES

Create slide presentation

- Used to present information visually
- Serves as an agenda or outline of the material to be covered
- Can also be used as handouts with places for notes
- Printed copies of slides can be used in case of equipment failure



BASICS OF INSTRUCTIONAL DESIGN - IMPLEMENTATION

COURSE CHECKLIST

• · · · · · · · · · · · · · · · · · · ·		
Create and send training announcement. Include:		Arrive early, allowing preparation time.
• Title		Post signs.
Course Description		-
Location		Arrange room setup to encourage interaction.
Date and time		Connect audiovisual equipment and test.
Registration information		Check visibility from all seats and angles.
Presenter/Contact information		Leasts to react the and lighting controls
Location details (Parking, room, directions, etc.)		Locate temperature and lighting controls.
Copy materials.		Locate emergency exits and equipment.
Training manual		Organize registration.
Handouts	_	
Name tags		Place copied materials as desired .
Sign-in sheets		□ at seats
Evaluation forms		registration table,
Tests		
Case studies and other activity materials		□ facilitator table (for later distribution)
• Signs		Greet attendees as they arrive.
Determine and reserve equipment.		Start on time.
Computer with necessary software		Conduct training adjusting based on participant page
Remote		Conduct training, adjusting based on participant needs.
Projector		Schedule breaks for every 60-90 minutes of training.
All related cords and connectors		Collect participant evaluation forms.
Microphones		Reset room to original condition.
Flip charts and stand		Ŭ
Markers		Compile evaluation results and share.
Materials for activities		Consider adjustments based on evaluation results.
Training supplies (pens, pencils, paper)		Send follow up emails and communications to those
Refreshments (optional)		involved in the training project.

BASICS OF INSTRUCTIONAL DESIGN - EVALUATION

EVALUATION AND CONTINUED DEVELOPMENT

THE BASICS:

- Create plan for review and revision of materials as needed
- Communicate evaluation results to stakeholders
- Create system to ensure materials are updated and maintained in one location
- Meet with stakeholders to determine what worked and what can be adjusted in future courses
- □ Notes:

EVALUATION FORM	Needs Improvement	Okay but Could Be Better	Good	Very Good	Excellent
The difficulty level of this training program was appropriate.	1	2	3	4	5
The activities were valuable in understanding the concepts and practicing them.	1	2	3	4	5
The pace of this class was appropriate for the topics covered.	1	2	3	4	5
The class included ample opportunities for active involvement.	1	2	3	4	5
The facilitator was knowledgeable about the subject.	1	2	3	4	5
I obtained the information I needed from this workshop.	1	2	3	4	5
The visual aids were clear and effective.	1	2	3	4	5
The handouts and other resources were useful.	1	2	3	4	5
I will be able to apply what I learned in this workshop.	1	2	3	4	5
I would recommend this workshop to others.	1	2	3	4	5
Commonto	•	-	-	-	-

Comments: