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Principles of Teaching NSQF and Analysis of Syllabus

Theory 3.4

ADDIE model of instruction

Objectives: At the end of this lesson you shall be able to

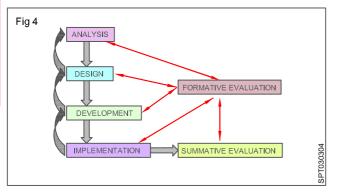
- define ADDIE
- explain the ADDIE model of instruction.

ADDIE

ADDIE is an instrutional systems design (ISD) frame work that many instructional designers and taining developers use to develop courses.

ADDIE is a project management tool that helps to co-ordinate the various steps in course and instructional design technology

Instructional design is the systematic approch to the Analysis, Design, Development, Implementation and Evaluation of learning materials and activities. (Fig 1)



Analysis phase

The analysis phase clarifies instructional problems and objectives, and identifies the learning environment and learner's existing knowledge and skills. Questions the analysis phase addresses include;

- Who are the learners and what are their characteristics?
- What is the desired new behavior?
- What types of learning constraints exist?
- What are the delivery options?
- What are the pedagogical considerations?
- What adult learning theory considerations apply?
- What is the timeline for project completion?

The process of asking these questions is often part of a needs analysis. During the needs analysis instructional designers (IDs) will determine constraints and resources in order to fine tune their plan of action.

ii Design phase

The design phase deals with learning objectives, assessment instruments, exercises, content, subject matter analysis, lesson planning, and media selection. The design phase should be systematic and specific. Systematic means a logical, orderly method that identifies, develops, and evaluates a set of planned strategies for attaining course content. Specific means execute each element of the instructional design plan with attention to detail. The design phase may involve writing a design document/design proposal or concept and structure note to aid final development.

iii Development phase

In the development phase, instructional designers and developers create and assemble course content described in the design phase. If e-learning is involved, programmers develop or integrate technologies.

Designers create stroyboards, materials and procedures. The designer reviews and revises the course content according to feedback.

iv Implementaion phase

The implementaion phase develps procedures for training facilitators and learners. Training facilitators cover the course curriculum, learning outcomes, method of delivery, and testing procedures. Preparation for learners includes training them on new tools (software or hardware) and student registration. Implementation includes evaluation of the design.

v Evaluation phase

The evaluation phase consists of two aspects: formative and summative. Formative evaluation is present in each stage of the ADDIE process, while summative evaluation is conducted at the end of their course. Donald Kirkpatrick's Four Levels of Learning Evaluation are often utilized during this phase of the ADDIE process.

These phases sometimes, overlap and can be inter related; however, they provide a dyanamic, flexible gudeline for developing effective and efficient instruction (Table 1)

Table 1

	Sample Tasks	Sample output
Analysis the process of defining what is to be learned	Learner profileProblem identificationTask analysis	 Learner profile Description of constraints Needs, problem statement Task analysis
Design the process of specifying how it is to be learned	Written objectivesDevelop test itemsPlan instructionIdentify resources	Measurable objectivesInstructional streategyPrototype specifications
Development the process of authoring and producing the materials	Work with producersDevelop workbook, flowchart Program	StroyboardScriptExercisesComputer assisted instruction
Implementaion the process of installing the project in the real world context	Teacher trainingTryout	Student comments, data
Evaluation the process of determining the adequacy of the instruction	Record time dataInterpret test resultsRevise activities	RecommendationsRevised prototype