

ISD in education

The systems approach ties instruction to what the students will be able to do after instruction that they could not do before. Objectives in educational curricula deal largely with cognitive learning (knowledge) and affective learning (attitudes) rather than with psychomotor skills. You measure student success in educational curricula through student performance samples that can demonstrate that learning the desired subject matter and attitudes has taken place.

This handbook illustrates how the ISD process works in the development of educational curricula. The guidance in this handbook will help you apply a systematic approach in your curriculum development work.

Systems approach example

The following table presents an overview of a systems approach to instructional design and development, and suggests some questions to ask at each stage.

DETERMINING INSTRUCTIONAL NEEDS	
Capability Analysis	Requirements Analysis
What knowledge and skills exist?	What levels of knowledge and skills are needed?
DESIGNING INSTRUCTIONAL SYSTEMS	
What is expected as a result of instruction? How can it be measured? What knowledge and skills are to be learned? In what order or sequence? What method is most likely to be effective? What kinds of tools, aids, and materials should be used? What options and resources are available? How can they be evaluated?	
DEVELOPING INSTRUCTIONAL SYSTEMS AND MEDIA	
How many people will be instructed? Who will they be? What should lesson plans include? What knowledge and skills are required to conduct instruction? What facilities and equipment should be used?	

**Systems approach
example
(Continued)**

**DEVELOPING INSTRUCTIONAL SYSTEMS AND MEDIA
(Continued)**

Where and when will learning activities take place?
What media and materials will learners and instructors need?
What existing media and materials can be adapted and used?
What more should be produced?
How will feedback be obtained and managed?
How should the system be validated?

IMPLEMENTING AND MAINTAINING THE SYSTEM

How often should activities take place?
Who will provide and use feedback?
How will results be used?
