

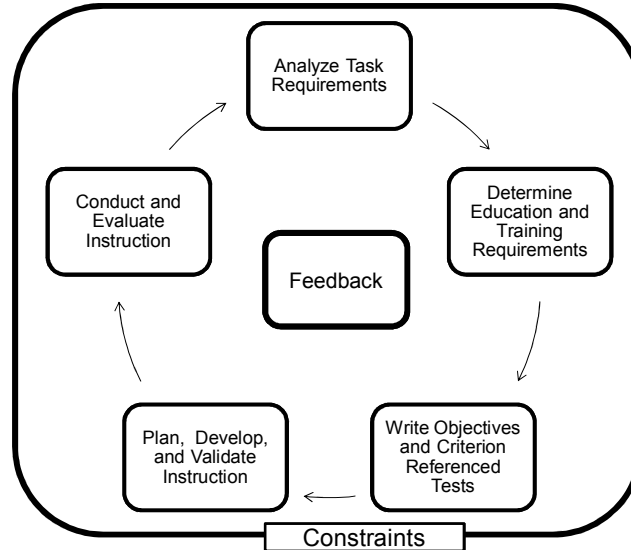
# **ADVANCED INSTRUCTIONAL TECHNIQUES**

Part III  
Lesson Planning  
Edward N. Ryan Jr. CET

## **Class Objectives (Part 3)**

- ▣ Lesson Plan Development
- ▣ Upon completion of training students will be able to:
  - Discuss possible sources of information for lesson plan development
  - Write a lesson plan introduction
  - Write a motivation statement
  - List the types of training formats
  - List the types of training methods
  - List the types of training media and the advantages and disadvantages to each

## ISD The Five Step Process



## 8 Steps for Well Done Lesson Planning

1. Determine the objective.
2. Research the topic as defined by the objective.
3. Select the appropriate instructional method.
4. Identify a usable lesson plan structure.
5. Decide how to organize the lesson, select the appropriate format(s).
6. Choose appropriate support material and media.
7. Prepare the beginning and the end of the lesson.
8. Prepare the final outline.

## Sources of Information

- ▣ Your knowledge of the subject
- ▣ Subject matter experts
- ▣ Libraries, technical data, manufacturer's data
- ▣ Periodicals, drawings, industry standards
- ▣ Federal, state and local regulations
- ▣ The relevant material, useful and appropriate
- ▣ Must directly support the learning objective
- ▣ Must aid the student in the learning process

## Select an Instructional Method

Method refers to a combination of techniques and skills used by the instructor to engage the student in meaningful learning

- ▣ The Lecture Method
  - Formal lecture
  - Informal lecture
  - Guest lecture
- ▣ Indirect Methods of Discourse
  - A Dialogue
  - The Teaching Interview
  - Dramatizations (Instructor Role Play)



## Select an Instructional Method

Method refers to a combination of techniques and skills used by the instructor to engage the student in meaningful learning

- ▣ Demonstration Performance Method
- ▣ Coaching Method
- ▣ Reading Method
- ▣ Self-Paced Instruction
  - Programmed instruction
  - Modular instruction
  - Computer based instruction
  - Mediated instruction



## Select an Instructional Method

Method refers to a combination of techniques and skills used by the instructor to engage the student in meaningful learning

- ▣ Guided Discussion Method
- ▣ Individual Projects
- ▣ Field Trips
- ▣ Simulation Method
  - Role-playing (Student)
  - Hardware simulations
- ▣ Case Study Method



## **Confined Space Entry Learning Objectives**

- ▣ List the three qualifications of a confined space.
- ▣ Describe the difference between a Permit Required and Non-Permit Required Space.
- ▣ List the Four Classes of Hazards and describe each.

## **Identify A Lesson Plan Structure**

Lesson Plan Structures can vary from a teaching point outline to a full manuscript.

Keep in mind that the Lesson Plan is for the instructor.

Those which are not useful to the instructor in the classroom are of little value.

## Identify A Lesson Plan Structure

1. The lesson name or identification.
2. The class capacity, maximum and minimum number of students.
3. Student prerequisites.
4. A course or class description, including intended audience.
5. The class duration. How long the instruction should take.
6. Class materials and method of presentation.
7. An introduction.
  - A. Administrative details, attendance, class documentation etc.
  - B. Class overview.
  - C. The objective statement.
  - D. The motivation statement.
8. The class presented information.
  - A. Key points.
  - B. Support material.
  - C. Evaluation.
9. A summary.
  - A. A summary of information.
  - B. Re-motivation.
  - C. The conclusion.

## Organize and Format

- ▣ Time / Sequential Format
- ▣ Spatial / Geographical Format
- ▣ Cause and Effect Format
- ▣ Problem / Solution Format
- ▣ Pro / Con Format
- ▣ Topical Format
  - simple to complex
  - known to unknown
  - general to specific.

## Combining Formats

- ▣ Organize Main Points
  - Single Format
  - Do Not Change Format
- ▣ Support Your Objective
- ▣ Subtopics may change format

## Combining Formats

- Donning an air pack
- |   |   |
|---|---|
| <p>I. Inspection (main points arranged sequentially)</p> <ul style="list-style-type: none"> <li>A. Cylinder</li> <li>B. Regulator (sub-points here arranged topically)</li> <li>C. Mask and hose assembly</li> <li>D. Straps and harness</li> </ul> <p>II. Wearing the cylinder</p> <ul style="list-style-type: none"> <li>A. Coat jacket method (topical)</li> <li>B. Over the head method</li> <li>C. Strap adjustment</li> </ul> <p>III. System activation</p> <ul style="list-style-type: none"> <li>A. Cylinder valve</li> <li>B. Main line valve (sequential)</li> <li>C. Indicator gage</li> </ul> | <p>IV. Donning the facepiece</p> <ul style="list-style-type: none"> <li>A. Proper seal</li> <li>B. Adjustment of head straps (sequential)</li> <li>C. Positive Pressure</li> <li>D. Leak checking</li> </ul> <p>V. Use</p> <ul style="list-style-type: none"> <li>A. When and Where (spatial)</li> <li>B. Low air warning (topical)</li> <li>C. By-pass valve. (Regulator failure)</li> </ul> |
|---|---|

## **Choose Support Material and Media**

- ▣ Supporting Main Points
  - Definitions
  - Examples

## **Choose Support Material and Media**

- ▣ Supporting Main Points
  - Comparisons
    - ▣ Descriptive Speech
      - Metaphors (Iron Curtain, Glass Ceiling)
      - Simile (Uses the words As or Like)
    - ▣ Proof
      - Comparisons (Things that are un-alike)
      - Contrasts (Things that are alike)



## Choose Support Material and Media

- ▣ Supporting Main Points
  - Testimony
    - Audience Testimony
    - Personal Testimony
    - Media Testimony
  - Statistics
    - Use with caution
    - Use to support teaching point
    - Source credible?

## Choose Support Material and Media

- ▣ Media
  - Video
  - Computer Based Instruction
  - Slide Projectors
  - Overhead Projectors
  - PowerPoint Slides
  - Data Projectors



## Choose Support Material and Media

- ▣ Media
  - Computer Projections
  - Marker Boards
  - Flip Charts
  - Models / Hardware Simulations
  - Actual Work Settings



## Prepare the Beginning & the End

- ▣ The Beginning
  - Attention
  - Overview
  - Objective
  - Motivation



## Prepare the Beginning & the End

- ▣ The End
  - Summary
  - Re-motivation
  - Closure
- ▣ Prepare the Final Outline

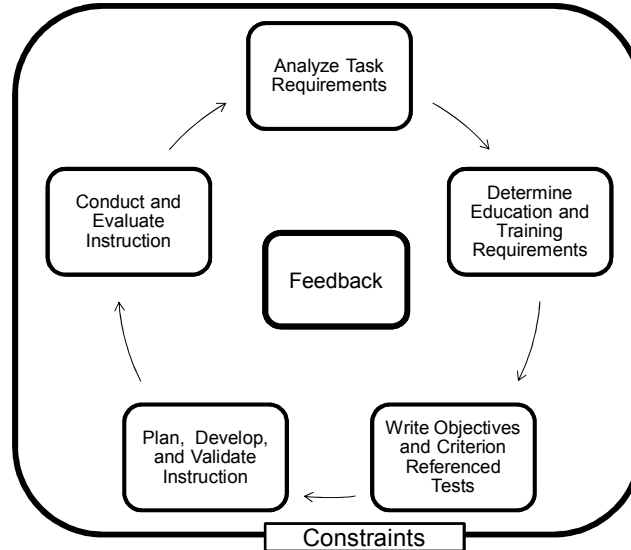


## Validate Instruction

- ▣ Technical Review
- ▣ Instructional Review
- ▣ Operational Validation



## ISD The Five Step Process



## The Legal Ease

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