Technology and Training

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Overview

- · New technologies and training
- · Multimedia training
- · Computer based training
- · Web and e-learning
- · Intelligent tutoring systems
- Distance learning
- Support technologies
- · Exam review

Technologies and Training

- · Influence on
 - Delivery costs
 - Effectiveness
 - Link to business goals
- New technologies
 - Multimedia
 - Distance learning
 - Expert systems
 - Electronic support systems
 - Training software applications

Multimedia Training

- Multimedia training combines audiovisual training methods with computer-based training.
- These programs integrate text, graphics, animation, audio, and video.
- Because this training is computer-based, the trainee can interact with the content.
- Can be delivered using the Internet or intranets.

Computer-Based Training

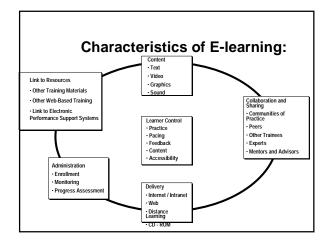
- Computer-based training (CBT)
 - How does CBT work?
 - How does the info flow?
 - How is the learning stimuli provided?
 - Feedback?
 - Examples

Web-Based Training and E-learning

- Internet-based training
- Intranet-based training

E-learning

- What is E-learning (online learning)?
- Examples:
 - Task-based support
 - Simulation-based training
 - Distance learning
 - Learning portals



Virtual Reality

- What is virtual reality?
- Examples

Intelligent Tutoring Systems (ITS)

- Instructional systems using artificial intelligence.
- Types of ITS:
 - Tutoring
 - Coaching
 - Empowering environments

Distance Learning

- Why use distance learning?
- How is distance learning different from, lectures delivered via cable or video?
- Involves two types of technology:
 - -Teleconferencing
 - -Personal computer-based training

Training Support: Expert Systems

- Expert systems refer to technology that organizes and applies the knowledge of human experts to specific problems.
- Expert systems are used as a support tool that employees refer to when they have problems or decisions they feel exceed their current knowledge and skills.

Expert Systems

- Expert systems have three elements:
 - A knowledge base that contains facts, figures, and rules about a specific subject.
 - A decision making capability that draws conclusions from those facts and figures to solve problems and answer questions.
 - A user interface that gathers and gives information to the person using the system.

Training Support: Groupware

- Software that enables multiple users to track, share, and organize information, and to work on the same document simultaneously.
- Why use groupware?
- Examples

Training Support: EPSS

- Electronic performance support system (EPSS) is an electronic infrastructure that:
 - Captures, stores, and distributes individual and corporate knowledge assets throughout an organization, to
 - Enable individuals to achieve required levels of performance in the fastest possible time and with a minimum of support from other people.

Choosing New Tech Methods

- Effectiveness
- · Learning and transfer
- Development costs
- Table 8-6

Traditional vs. High-Tech Training

- Traditional training methods including lecture, participation, group work, etc., best facilitate learning
- Traditional training methods are obsolete and E-learning is 'the way of the future'

Next Time

• MIDTERM EXAM 1