Training and the Future Classroom: An Overview of the Joint ADL Co-Laboratory and the ADL Prototypes

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Joint ADL Co-Laboratory





Joint ADL Co-Lab Goals and Function

Support implementation of ADL in the Department of Defense by

- Developing ADL prototypes
- Assembling guidelines for creating effective webbased learning
- Serving as consultants to the Services on ADL
- Collecting and disseminating lessons learned
- Coordinating ADL programs to facilitate re-use
- Evaluating ADL products such as learning management systems



JOINT ADL Co-Laboratory

- Coordinates with the R&D community
 - Helps identify gaps in current capabilities and technologies for ADL implementation
 - Provides a "testbed" for conducting R&D
 - Works with industry to evolve commercial products to address defense requirements
- Works with the acquisition community to:
 - integrate commercial specifications into government acquisition process
 - Identify costs and benefits of changing current practices





Joint Advanced Distributed Learning Co-Laboratory

AFHRL



Readiness & Training



U. S. Coast Guard Liaison Office



Chief of Naval Education & Training

AMEDD



Naval Air Warfare Center Training Systems Division



U.S. Army
Intelligence Center
& Fort Huachuca

Co

Located at:

University of Central Florida Institute for Simulation & Training



U. S. Marine Corp Program Office



CINCLANTFLT





U. S. Air Force Agency for Modeling & Simulation

Purpose of ADL Prototypes

- Encourage use of Advanced Distributed Learning
- Support innovation
- Foster collaboration
 - Test reuse process
- Get feedback on implementation issues
 - Identify recommended changes to the SCORM
 - Uncover problems so that they can be addressed
- Collect and share lessons learned



Criteria for Selection

- ✓ Interservice Participation
- ✓ Leveraging of Resources
- ✓ Support of ADL "ilities"
 - ✓ Accessibility
 - ✓ Reusability
 - ✓ Interoperability
 - ✓ Adaptability
 - ✓ Durability
- ✓ Use of SCORM
- ✓ Implementation
- ✓ Value



Prototypes

- Six rapid prototypes initiated in FY 00
- Call for prototypes issued in FY 00 and 01
 - In FY 01, requested proposals in three areas:
 - Medical
 - Performance Support
 - Use of entertainment and gaming technology
 - In FY 01, used two phase process with white papers submitted initially and reviewed
 - All proposal must be submitted by military organization; partnering encouraged
- Call for prototypes in FY 02
 - Emphasis on "A" in ADL; collection of data



Overview of Prototypes

- 26 Prototypes funded through the FY 01 and 02 calls
- Represent a mix of new starts and converting legacy content from:
 - Classroom
 - Traditional computer based training
 - Web



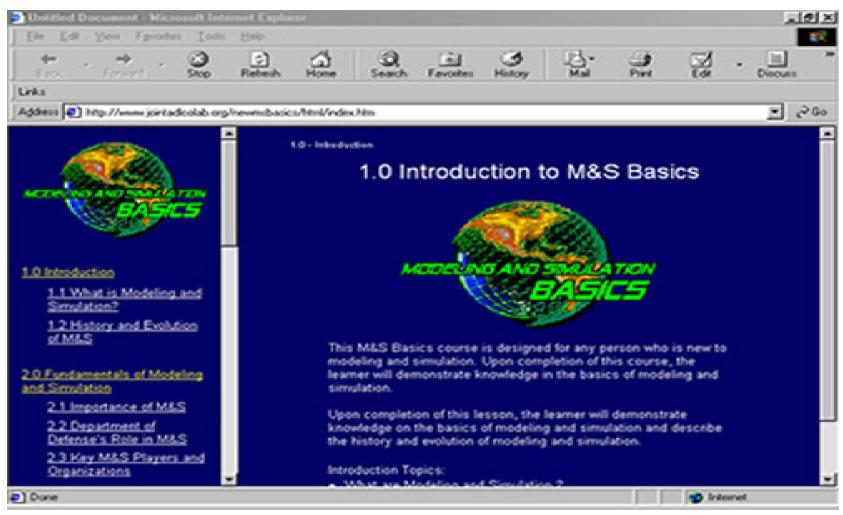
What's Different

- Instructor isn't physically present
- Can allow learner to progress at own pace
- Wide distribution
 - Can enable broader access to training
- Can be easily combined with performance support tools
- Not locked into an instructional hour
- Can reuse content
- Good design is critical...can't adjust on the fly to student feedback



www.adlnet.org

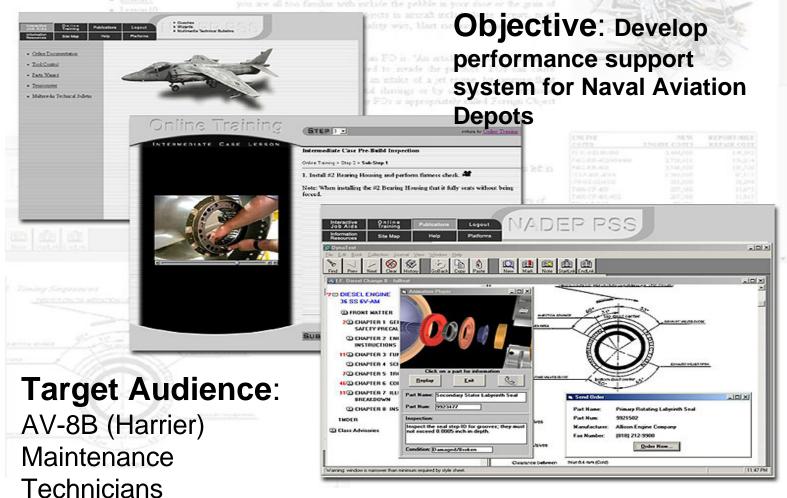
Modeling and Simulation Basics Course



- Objective: To provide DoD M&S basics information.
- Target Audience: Personnel new to Modeling & Simulation.



Naval Aviation Depot Performance Support System





www.adlnet.org

Combat Casualty Care Training



- Objective: To provide critical skills thinking and decision making in combat trauma management
- Target Audience: Physicians, nurses and other health care personnel



Distributed Joint Force Development



- **Objective:** Demonstrate force vs force play of Joint Force Employment over Internet and LAN Network
 - Cooperative play of one team against another team or computer
 - Air or Land components against computer
- Target Audience: Joint Warfighters







Reserve Component Professional Military Education



 Conversion of existing Armed Forces Staff College Joint Professional Military Education(JPME) courses into a format suitable for Advanced Distributed Learning for use in a Joint Planning Course.

– Target Audience:

Reserve and active component officers going to joint assignments.



ADL for Damage Control Repair Party



Objective: Enhance sailors knowledge of Damage Control/Firefighting on ships

Target Audience:

Navy ship's force and Coast Guard

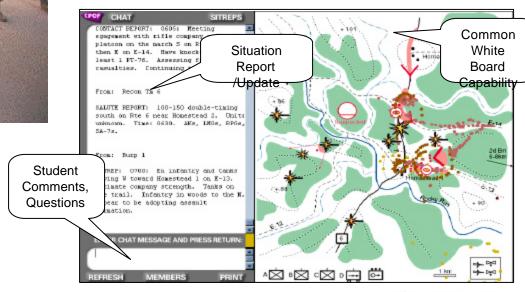


www.adInet.org

Electronic Tactical Decision Game for Training Joint Peacekeeping Operations (OOTW)



Target Audience: Army Command and Control **Objective**: To increase readiness prior to deployment—accelerate teamwork and team decision—making skill development by developing automated learner/instructor support tools.



eTDG4-Battle of Rocky Run Hollow



Sharing Medical Case Information

Old Method



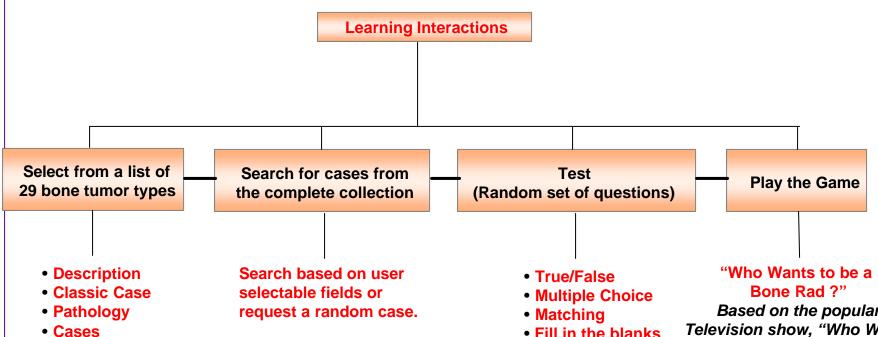
Interesting cases in filing cabinets



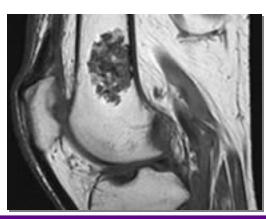
Faculty Instruction At View-box



Sharing Medical Case Information: Bone Tumor Central Resource







Fill in the blanks

Based on the popular

Television show, "Who Wants To Be a Millionaire ?"

Advanced Distributed Learni

Objective: Develop multi-media tool to train target audience in pattern recognition, diagnosis and medical problem-solving with focus on

Target Audience:

Medical students. residents and physicians

Joint Advanced Distributed Learning Co-Laboratory

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ADL Prototypes

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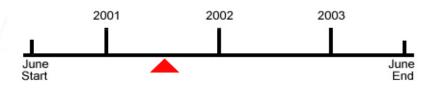
Library

Security Notice

Webmaster

Advanced Distributed Learning Guidelines Version 1.5

- This site contains a set of evolving ADL guidelines with references.
- It includes checklists and user rating scales for evaluation.
- · The guidelines are being applied to ADL prototypes.
- Your feedback will help improve the guidelines & make them more responsive to your needs.
- · Return to the site periodically for updates.
- You can now print the entire set of guidelines and rating scales in one document.



Guidelines Project Summary (Text File)

"About the Guidelines" Brief (PPT 1.29 MB)

Register to view the guidelines

Login to View Guidelines

(Registration Required)



Guidelines are based on educational and psychological research



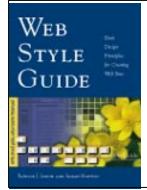
and on best practices.



Sources



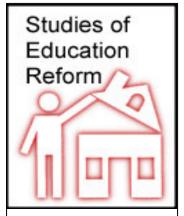
Theoretical articles and literature reviews



Large sets of guidelines already compiled by businesses or institutions



Smaller sets of guidelines on specific topics, such as "online conferencing"



Articles on best practices or lessons learned



Empirical research that establishes the authenticity of a guideline

Evaluation

Two types of evaluation tools are being developed for evaluations of ADL prototypes:

Evaluation Checklists



Check of compliance with guidelines

User Rating Scale



User-learner ratings of usability, etc.

Possibilities for Collaboration

 Review prototypes and contact us if there are some that match your interests

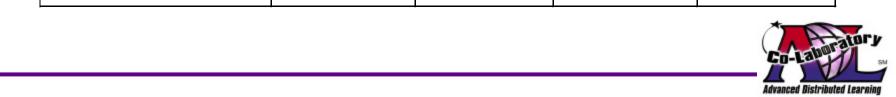
http://www.jointadlcolab.org

- Use and provide feedback to the guidelines
- Applications for training in the testing community
- Creation of sharable content object reference models that are based on testing data



ADL Co-Lab FY 00 Prototype Matrix

Projects	New	Legacy		
		Classroom	CBT	Web Based
Introduction To				
Modeling &Simulation				
EA6-B Training				
(Adaptive Learning)				
Depot Maint/ Trng Sys				
for AV8-B Maint				
(Performance Support)				
Civilian Supervisory			_	
Training				
Armor Captain's				
Career Course				
Smart Cruiser	/			
Air Force M&S ADL				
Model Program				
Model ADL Repository				



ADL FY 00 Co-Lab Prototype Matrix

Projects	New	Legacy		
		Classroom	CBT	Web Based
Joint SOF Education			/	
Reserve Component Joint Professional Military Education	✓			
Distributed Joint Force Employment				
Joint Services ADL Instructor Training				
Learning Mgmt System for "SMART" Center				
ADL for Damage Control Repair Party			~	~
Financial Management				





ADL FY 01 Co-Lab Prototype Matrix

Projects	New	Legacy		
		Classroom	СВТ	Web Based
Dismounted Warrior	/		/	
AF Online Career Development Course		Paper-based		
Sharing Medical Case Information	Game/Entertainment		~	
SCORM Compliant AU's from Synchronous Distance Learning Efforts			✓	✓
Electronic Tactical Decision Game for Joint Peacekeeping Operations (OOTW) in a Distance Learning Environment				•



ADL FY 01 Co-Lab Prototype Matrix

Projects	New	Legacy		
		Classroom	СВТ	Web Based
Situational Crisis				
Response Agents and				
Master Blackboard	Job Performance Ai	d		
Logistics Environment (SCRAMBLE)	Job Performance Al	u		•
Validated Training				
Objects Re-purposed				
for Job Performance				
Support Application				
Asynchronous Combat				
Casualty Care				
Training				
Common Source				
Database Applied in a				
School House and in				
Performance				
Mentoring				
Naval Aviation Depot				•
Performance Support				
System (Phase III)			•	
				a look

Current and Planned Projects

- Current Projects
 - Prototypes (6 complete out of 25)
 - Guidelines
 - Learning Management Evaluation completed for Chief of Naval Education and Training's Navy E-learning
 - Collection of Lessons learned (on-going)
 - Additional prototypes (egress training, SCORM course, use of human subjects, project team training)
 - Small Business Innovation Research projects
- Planned Projects
 - FY 02 Prototypes
 - Repository development and evaluation

