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## *Performance-Oriented Workshops*

### **Applied M&S for Users and Managers**

**A hands-on workshop that helps participants master the world of modeling and simulation**

Professional education, integration, and cooperation are essential to the expansion and proper utility of modeling and simulation within the military and industrial communities. "Applied M&S for Users and Managers" was designed to provide the essential foundation for the practitioners of M&S in the Department of Defense, as well as in private industry.

The course initially provides participants with a firm foundation in M&S so they can follow the rest of the lessons. The course then shifts to a series of interactive discussions and practical exercises on M&S applications with demos of hands-on virtual and constructive simulations.

Also incorporated are the challenges that occur in test and evaluation; validation, verification and accreditation; synthetic environment representation; and in many of the aspects of the cost-effective use of distributed simulation. Other lessons discuss the foundational technologies and disciplines of network computing, hardware and software, communications and security and visual systems. Joint military modeling and simulation applications are also discussed.

This course reveals a comprehensive program of education necessary for the future of the



Modeling and Simulation workforce. It is delivered across domains that meet the long-term requirements for management, execution, instruction and evaluation.

### **Web-Based Instruction: Essential Techniques and Technologies Workshop**

**A hands-on workshop that helps participants master the world of web-based courseware**

The proliferation of educational and training strategies using the Web requires teachers, trainers and supervisors to know how to develop and implement Web-based learning programs. A particular need exists for educators to learn how

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**Mission:** ■ Be a focal point for the expanding modeling and simulation community ■ Develop and conduct M&S research and related services ■ Identify M&S directions and trends ■ Facilitate moving M&S into new areas ■ Be a research and development access point to industry for technology transfer ■ Create and participate in partnerships ■ Provide an environment conducive for student and faculty participation in M&S research and development ■ Provide continuing education services.

to convert traditional courseware to Web-based variants.

The Web-Based Instruction Course provides information for understanding and applying essential techniques and technologies to convert paper-based or instructor-led courseware to the Internet/Intranet environment. The instructional approach is an integration of real-world examples, current literature and technology demonstrations in combination with extensive hands-on practical exercises.

Participants apply instructional systems design concepts to develop Web-based instructional strategies using a multi-media, multi-platform model. Hands-on practical exercises provide the knowledge and skills to manipulate various instructional media (i.e., audio, video, graphic images and text) to optimize each for a Web environment. Approaches for incorporating various media into WBI courseware are covered. Additionally, current highly rated courseware development authoring systems are described and demonstrated.

Web hosting issues, such as bandwidth factors, system security in a networked environment, costs and benefits of using local- vs. wide-area networks (LAN versus WAN) and other technical issues are also covered.

### **Advanced Learning Technology Workshop**

This course is designed to stimulate an interest in training systems design and application through the use of real-world examples, current literature coverage and technological demonstrations when available.

The course walks the student through the systems approach process of designing instruction, from determining performance requirements to analyzing learning outcomes, selecting appropriate media and designing criterion tests.

Students will see various techniques for presenting instruction and evaluate the results to ensure they are the most effective and efficient of the many new learning tools and technologies available. Students will gain renewed insight that “the medium is not the message,” even with advanced technologies.

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