

Syllabus

- 1) Course name: Contracting for M&S
- 2) Course coordinator: Eric W. Weisel, Ph.D.
6609 Main Street
Gloucester, VA 23061
(804) 694-3173 (Office)
innovate@werneranderson.com
- 3) Course description: Recognize contracting issues for M&S products. Include considerations for intellectual property issues, delivery terms, maintenance responsibility, standards for documentation, open architecture, interoperability, reuse and other considerations
- 4) Modules incorporated into the Course – A4
- 5) ESRs that the course supports and corresponding level of mastery.

ESR#	Learning objective	Level of mastery
A4.1	Describe the Intellectual Property issues that arise when contracting for M&S products.	Understanding
A4.2	Understand ways to protect Intellectual Property when contracting for M&S products.	Understanding
A4.3	Describe and differentiate between possible Terms of Delivery when contracting for M&S products.	Understanding
A4.4	Identify the content, format, and medium the government should require for documentation deliverables.	Understanding
A4.5	Understand the long-term maintenance options available to government customers when contracting for M&S products.	Understanding
A4.6	Understand issues in using Open Architecture products, including compatibility and continued use of legacy or unsupported systems.	Understanding
A4.7	Understand the contract process for issuing M&S requirements and insuring that contractor M&S is interoperable with government and other third-party M&S.	Understanding
A4.8	Understand the contractual issues involved with reuse of purchased M&S products.	Understanding
A4.9	Understand the general rules and regulations for contracting.	Understanding
A4.10	Understand the options and procedures for enforcing contract terms or resolving contractor disputes with regard to M&S.	Understanding
A4.11	Understand the recommended contracting language for M&S contracts.	Understanding
A4.12	Understand risk management procedures when contracting for M&S products.	Understanding

A4.13	Given a case study, assess and revise contract documents to insure that program M&S objectives with regard to IP, delivery, interoperability, maintenance, and reuse are met and enforced.	Mastery
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- 6) Prerequisites assumed and corresponding level of mastery: None
- 7) Course maturity: Beta delivery with partial coverage of listed topics
- 8) Number of contact hours and pace contemplated: 4-day short course format with 1 hour introduction to the course, 31 hours of lecture instruction, 5 hours of project work
- 9) Proposed delivery modality: Face-to-face
- 10) Reference list

- [1] Assistant Secretary of Defense Production and Logistics, *Procedures for the Acquisition and Management of Technical Data DoD 5010.12 M, May 1993*, last accessed 11 January 2009 available at <http://www.dtic.mil/whs/directives/corres/pdf/501012m.pdf>.
- [2] Defense Acquisition University, *Defense Acquisition Guidebook*, Defense Acquisition University Press, Ft. Belvoir, VA, last accessed 16 October 2008 at <https://akss.dau.mil/dag/>.
- [3] Department of Defense, *Program Manager's Guide: A Modular Open Systems Approach (MOSA) To Acquisition, Version 2.0 September 2004*, Joint Task Force, last accessed 31 December 2008 at <http://www.acq.osd.mil/osjtf/pmguide.html>.
- [4] Department of Defense, *Risk Management Guide for DoD Acquisition, Sixth Edition, Version 1.0*, Defense Acquisition University, August 2006, last accessed 31 December 2008 at http://www.dau.mil/pubs/gdbks/risk_management.asp.
- [5] Department of the Navy PEO-IWS 7, *Naval Open Architecture Contract Guidebook, version 1.1 December 2007*, last accessed 11 February 2009 at <https://acc.dau.mil/CommunityBrowser.aspx?id=105662&lang=en-US>.
- [6] Naval Sea Systems Command SEA 04L, *A Program Manager's Guide to the Application of Performance Based Logistics (PBL), October 2008*, last accessed 17 October 2008 at <https://acc.dau.mil/CommunityBrowser.aspx?id=239806&lang=en-US>.
- [7] General Services Administration, *Federal Acquisition Regulation*, last accessed 31 December 2008 at <https://akss.dau.mil/default.aspx>.
- [8] Office of the Undersecretary of Defense for Acquisition, *Technology, and Logistics, Intellectual Property: Navigating Through Commercial Waters, Version 1.1, October 2001*, last accessed 31 December 2008 at <http://www.acq.osd.mil/dpap/Docs/intelprop.pdf>.
- [9] Office of the Undersecretary of Defense for Acquisition, *Defense Federal Acquisition Regulation Supplement (DFARS) and Procedures, Guidance, and Information (PGI)*, last accessed 31 December 2008 at <http://www.acq.osd.mil/dpap/dars/dfarspgi/current/index.html>.

- [10] Office of the Undersecretary of Defense for Acquisition (ODUSD (A&T)SSE/DTE), *Modeling and Simulation (M&S) Guidance for the Acquisition Workforce, Version 1.01 October 2008*, last accessed 31 December 2008 at <http://www.acq.osd.mil/sse/docs/M-S-Guidance-Acquisition-Workforce.pdf>.
- [11] Piplani, Lalit K., Joseph G. Mercer and Richard O. Roop, *Systems Acquisition Manager's Guide for the use of Models and Simulations, Report of the DSMC 1993-1994 Military Research Fellows*, Defense Systems Management College Press, Ft. Belvoir, VA, September 1994, last accessed 31 December 2008 at http://www.dau.mil/pubs/mfrpts/pdf/mod_sim.pdf.
- [12] Shea, Dennis P., "Modeling and Simulation Resource Reuse Business Model," Presented at Defense M&S Conference, Orlando, March 2008. last accessed 31 December 2008 at http://www.msco.mil/files/DMSC/2008/02_Business_Model_for_MS_Reuse.ppt.
- [13] SPAWAR, Sample SPAWAR M&S Solicitation, Section C Descriptions and Specifications, last accessed 11 February 2009 at <http://writer.zoho.com/public/billduncan/SPAWARSYSCEN-Engineering-and-Technical-Support-DPWS1>.

11) Course assessment plan: In class discussion, in class project at end of course

12) Testing Strategies: Multiple choice, true/false, short answer, essay questions

13) Topic list by hour of instruction and reference:

Topic	Hrs	References
Introduction and Overview	1 hr	course syllabus and instructor notes
Intellectual Property Issues in Contracting for M&S Products	3 hrs	[8]
Protecting Intellectual Property	3 hrs	[8]
Terms of Delivery and Contracting for M&S Products	3 hrs	[10]
Documentation Deliverables	3 hrs	[1], [2], [13]
Long-Term Maintenance for Contracted M&S	3 hrs	[1], [2]
Issues with Open Architecture	3 hrs	[3]
Ensuring Interoperability	3 hrs	[2]
Planning for Reuse	3 hrs	[2], [8], [9], [10], [11], [12]
General Rules and Regulations	3 hrs	[7]
Enforcing M&S Contract Terms	3 hrs	[7]
Contract Risk Management	3 hrs	[2], [5], [7], [9], [13]
M&S Contracting Language	3 hrs	[2], [4], [5], [8]
M&S Contract Project	5 hrs	instructor notes