

# Acquisition Logistics

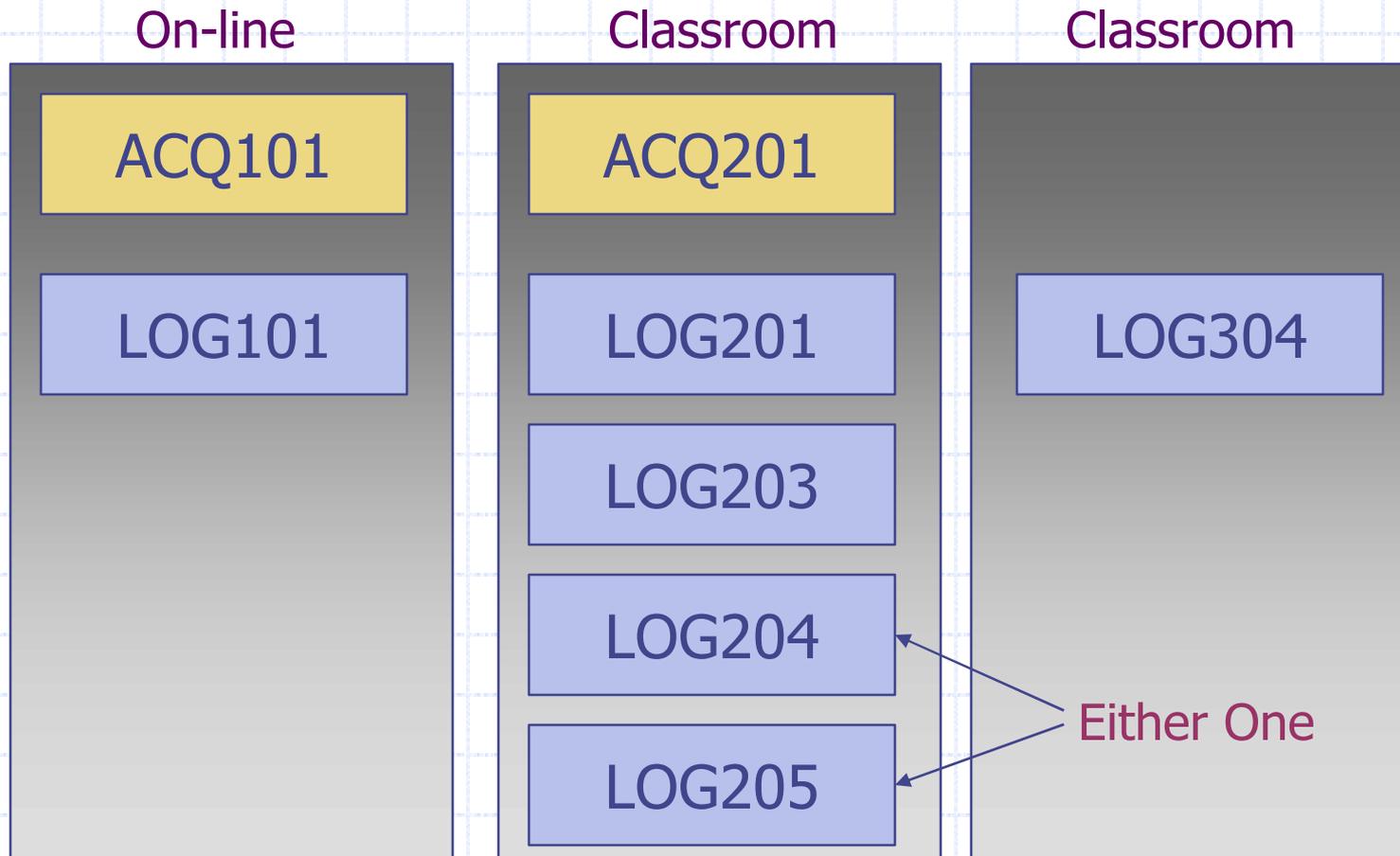
## Program Plan

# Mission Statement

- ◆ Provide our stakeholders what they need when they need it
- ◆ In the Acquisition Logistics Program, we are focused on reducing student time away from their jobs and addressing Future Acquisition & Technology Workforce Report competencies

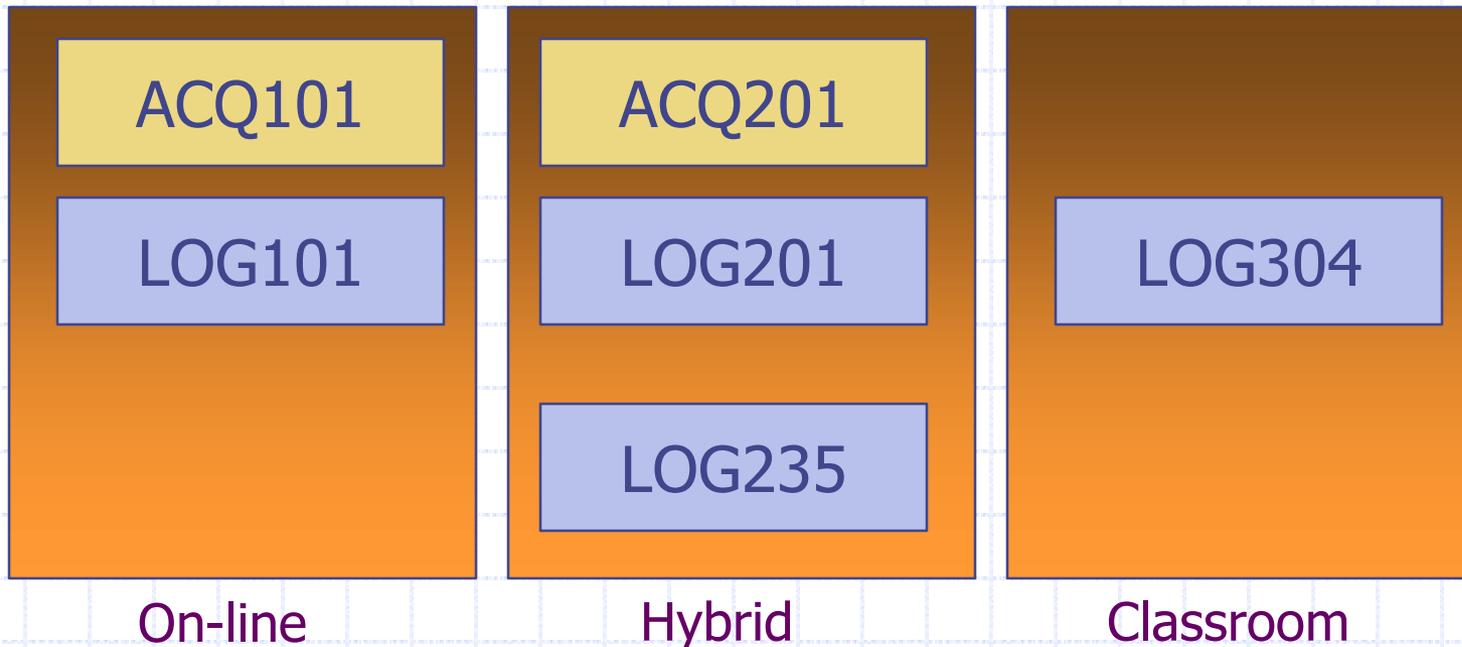
# Current Program

## ◆ Career training for logistics by level



# Planned Logistics Program

- ◆ Create a more responsive set of courses for the acquisition logistics career field.



# Goals & Objectives

## ◆ Revised Program Goals

- Tailored to Future Workforce Competencies
- Reduced Student Travel for Training
- Level I Courses are Both On-line
- Level II Courses are Both Hybrid/DL
- New LOG235 Replaces Existing LOG203, LOG204, & LOG205

# Distance Learning Proposal

- ◆ Level II Acquisition Logistics courses need a significant “interactive” component
- ◆ University of Phoenix models can provide “interaction” without web-based overhead or costs
- ◆ E-mail promotes interaction and faculty/instructor relationship missing in examples of web-based DAU courses
- ◆ UOP models address adult learning theory and expert adult assessment
- ◆ Classroom supplements DL learning by providing teaming and student synergistic opportunities

# LOG201

- ◆ Emerging Acquisition Logistics Concepts
- ◆ Systems Engineering
- ◆ Test and Evaluation
- ◆ Modeling and Simulation
- ◆ Market Research
- ◆ Life Cycle Costing/TOC
- ◆ Support Planning
- ◆ Contracting for Logistics

# LOG235

- ◆ Reengineering Product Support
- ◆ Business Case Analysis
- ◆ R&M and Configuration Mgt.
- ◆ Supply Chain Management
- ◆ Flexible Sustainment/PV/DV
- ◆ Support Options
- ◆ Continuous Modernization
- ◆ Commercial Integration

# LOG201

## Intermediate Acquisition Logistics

- ◆ Drop low value-added units
- ◆ Align to new competencies
- ◆ Off-load knowledge activities to DL
- ◆ Maintain, apply and analyze tasks in classroom/teaming
- ◆ Keep close link between student and faculty in DL



# LOG201 Changes

- ◆ Student/faculty analysis indicated the following units did not have high value-added:
  - Training
  - Support Equipment
  - Configuration Management
  - Supply Support
  - Human System Integration
  - Maintenance Planning
- ◆ None of these were addressed in the FATW report on FY2005 competencies.

# LOG201 Redesign

- ◆ Core FATW competencies allocated:
  - Emerging Acquisition Logistics Concepts
  - Systems Engineering
  - Test and Evaluation
  - Modeling and Simulation (SBA)
  - Market Research
  - Life Cycle Costing (TOC)
  - Support Planning
  - Contracting for Logistics Support

# LOG201 Format and Delivery

- ◆ Hybrid of distance learning (DL) and classroom
- ◆ Student DL assignments directly input and reviewed by faculty for feedback
- ◆ DL portion 4 weeks of work (approximately 40 hours) e-mailed or faxed to faculty
- ◆ Completion of DL allows entry to classroom for skills integration and teamwork synergy
- ◆ Classroom limited to 8 full days
- ◆ Classroom demonstrates competency integration

# LOG201

## Major Competencies

- ◆ Emerging Acquisition Logistics Concepts
- ◆ Systems Engineering
- ◆ Test and Evaluation
- ◆ Modeling and Simulation
- ◆ Market Research
- ◆ Life Cycle Costing/TOC
- ◆ Support Planning
- ◆ Contracting for Logistics

# LOG201

## Intermediate Acquisition Logistics

Week 1	Week 2	Week 3	Week 4	Resident
Emerging Logistics Concepts Part 1	Emerging Logistics Concepts Part 2	Emerging Logistics Concepts Part 3	Emerging Logistics Concepts Part 4	Emerging Logistics Concepts Part 5
Systems Engineering Part 1				Systems Engineering Part 2
Modeling and Simulation Part 1	Modeling and Simulation Part 2			Modeling and Simulations Part 3
	Market Research 1			Market Research 2
		Test and Evaluation Part 1		Test and Evaluation Part 2
		Life Cycle Costing 1		Life Cycle Costing Part 2
			Support Planning Part 1	Support Planning Part 2
			Contracting Part 1	Contracting Part 2

3/11/2002

# Emerging Logistics Concepts

- ◆ Know leading edge acquisition logistics concepts, policies, techniques, and strategies.
- ◆ Address how these concepts/policies impact logistics support:
  - ATD & ACTD
  - Open Systems
  - Interoperability
  - Metrics
  - CAIV
  - Commercial and CLS
  - Evolutionary Acquisition
  - Performance Based Logistics
  - Enterprise Resource Planning
- ◆ Select a leading edge concept and relate its impact on logistics.
- ◆ Develop information paper and give briefing on above topic.
- ◆ Justify and defend findings presented.

# Systems Engineering

- ◆ Relate the elements of systems engineering to supportability.
- ◆ Address criticality of logistics in systems engineering and systems development.
- ◆ Understand:
  - IPPD/IPT
  - Key Performance Parameters
  - Development of ORD thresholds and objectives
  - Tradeoff analysis
  - Supportability analysis
  - Tools and technology
- ◆ Participate in systems engineering activities
  - Develop sensitivity analysis based on user requirements
  - Perform an allocation of support requirements
  - Perform best value analysis and recommend alternatives
  - Identify how critical logistics issues may affect system design

# Modeling and Simulation

- ◆ Given access to policy and web sites, identify importance of M&S.
  - Differences between modeling and simulation
  - Types of models and simulations
  - Benefits and challenges of M&S
  - How M&S matures with systems development
  - Explain M&S validation & verification
  - Define SBA and relate to M&S
  - How M&S relates to logistics support
  - Define the STEP process
  - M&S in acquisition strategies
- ◆ Perform tradeoff analysis
- ◆ Use SBA model for analysis

# Market Research

- ◆ Identify value of Market Research on AS and requirements documents.
  - Identify steps in Market Research and tools available
  - Discuss Surveillance, Research, and Investigation
  - Relate strategic planning to commercial items
  - Identify how market research identifies logistics concerns
- ◆ Perform market research and develop logistics inputs to requirements and program documents.
  - Analyze markets/sourcing strategies to determine best value
  - Analyze supportability constraints and opportunities
  - Determine supportability risks through market investigation
  - Analyze user requirements and support options

# Test and Evaluation

- ◆ Understand how T&E identifies risk areas and how it influences systems design.
  - Relate types of testing to logistics and risk management
  - Identify purposes of T&E and use of M&S
  - Identify tools and techniques influencing development of TEMP
  - Determine M&S emphasis on streamlining the testing process
- ◆ Identify support areas with significant operational logistics risk and develop planning factors.
  - Identify applicable areas of TEMP
  - Develop critical operational issues and measures of effectiveness
  - Evaluate/assess how logistics issues may affect system design

# Life Cycle Costing (TOC)

- ◆ Understand the importance of LCC and relate CAIV to LCC management.
- ◆ Identify impact of system support on LCC and TOC.
  - Tie logistician's role in LCC and design process
  - Define CAIV and how tied to user requirements
  - Identify how LCC/CAIV impact system design decisions
  - Identify estimating methods and relate to design maturity
  - Identify components of TOC and responsibilities for each
- ◆ Use a model to analyze a program, recommend changes, and estimate their affect on LCC.
  - Develop a LCC estimate
  - **Analyze and revise logistics budget estimate**
  - Identify significant cost drivers
  - Perform tradeoff analysis to meet objectives and logistics risks
  - Recommend and defend alternative support options for best value

# Support Planning

- ◆ Define logistician's role in support planning.
  - Identify linkages that affect interoperability
  - Understand organic (including DLA) and commercial options available
  - Apply rules and tools to determine support options – CLS and contracting techniques to include A-76 and Core issues
  - Identify benefits of transitioning to commercial items
  - Analyze impacts on logistics system (supply & maintenance)
- ◆ Develop an integrated support plan and prepare briefing to PM.
  - Perform risk analysis to identify logistics concerns/issues
  - Address interoperability and joint service requirements
  - Identify potential technology insertion
  - Recommend logistics metrics and address LCC

# Contracting for Logistics

- ◆ Recognize responsibilities in development of RFP.
  - Determine role in contracting for logistics
  - Understand relationship among sections C, L, and M
  - Know performance-based work statements and specs
  - Understand differences between SOO and SOW
  - Address use of incentives, logistics metrics, and best value
- ◆ Develop performance-based work statements and specifications, instructions to offerors, and evaluation criteria.
  - Prepare logistics portion of Section C of RFP in performance terms
  - Develop logistics portion of a performance-based specification
  - Develop evaluation criteria and standards for logistics
  - Recommend incentives and contracting approaches
  - Assess an offeror's proposal against requirements

# LOG201

## Intermediate Acquisition Logistics

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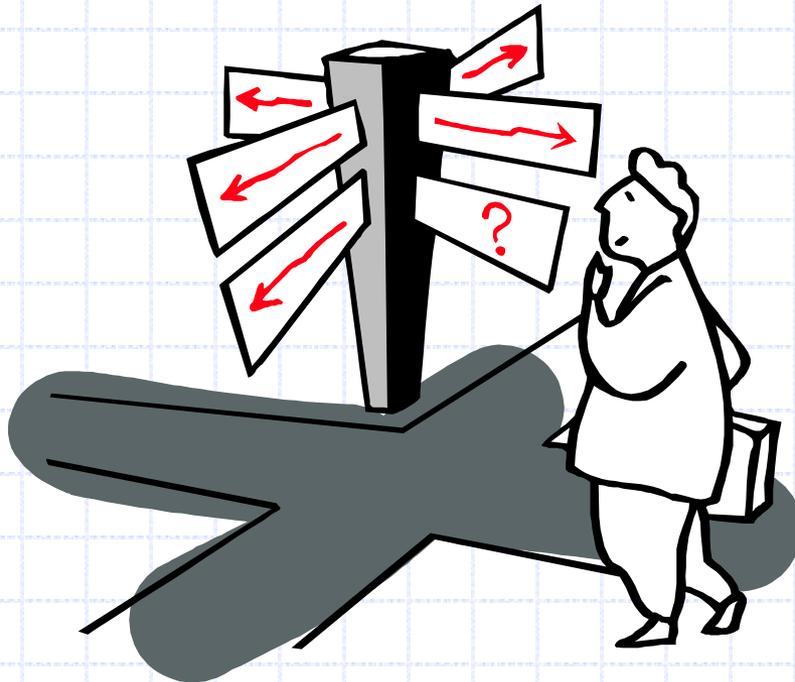
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# LOG201 Throughput

- ◆ Each Faculty handles up to 20 Students per class.
- ◆ Each class of 20 students takes 4 weeks DL before taking 8 days Classroom.
- ◆ Up to 6 Sessions of DL/Classroom in a Calendar Year.
- ◆ 550 Students per Year (24 students X 3 Faculty Teams (FL) X 6 Sessions + 30 students X 2 Faculty Teams (Belvoir) X 2 Sessions) Max.
- ◆ Average Current Throughput Requirement is 500+ per year.

# LOG235

## Reengineering Product Support



- ◆ Address new competencies absent in current LOG203, 204 and 205.
- ◆ Bring critical thinking skills and latest product processes to level II students
- ◆ Consolidate three separate courses into one
- ◆ Maximize exposure to all acquisition logisticians with minimum TDY for classes

# LOG235 Format/Delivery

- ◆ Hybrid of Distance Learning (DL) and classroom
- ◆ Student DL assignments directly input and reviewed by faculty for feedback
- ◆ DL portion 5 weeks of work (approximately 50 hours) e-mailed or faxed to faculty
- ◆ Completion of DL allows entry to classroom for skills integration and teamwork synergy
- ◆ Classroom limited to 3 full days
- ◆ Classroom demonstrates competency integration

# LOG235

## Major Competencies

- ◆ Reengineering Product Support
- ◆ Business Case Analysis
- ◆ R&M and Configuration Mgt.
- ◆ Supply Chain Management
- ◆ Flexible Sustainment/PV/DV Concepts
- ◆ Support Options
- ◆ Continuous Modernization (MTS/CTR)
- ◆ Commercial Integration

# LOG235

## Reengineering Product Support

Week 1	Week 2	Week 3	Week 4	Week 5	<b>Resident Exercises</b>
Reengineering Product Support Part 1	Reengineering Product Support Part II	Reengineering Product Support Part III	Reengineering Product Support Part IV	Reengineering Product Support Part V	Business Case Analysis Part III
Business Case Analysis Part 1	Business Case Analysis Part II		Continuous Modernization Part 1	Continuous Modernization Part II	Continuous Modernization Part III
	Supply Chain Management Part I	Supply Chain Management Part II		Supply Chain Management Part III	Supply Chain Management Part IV
Reliability, Maintainability & Availability	Commercial Integration Part 1	Commercial Integration Part II		Configuration Management	Commercial Integration Part III
Support Options Part 1		Support Options Part II	Support Options Part III		Support Options Part IV
			Flexible Sustainment Part 1		Flexible Sustainment Part II

# Reengineering Product Support

- ◆ Identify commercial **and organic** best practices with potential application to support structure. (1)
- ◆ Understand research methods, literature, Internet to effectively conduct research on reengineering product support. (1)
- ◆ Using lessons learned from recent reengineering efforts, identify process improvements and impacts on support **including the need to maintain long-term competitive sourcing**. (1)
- ◆ Understand the unique characteristics of current support processes. (2)
- ◆ Given reengineering tools, determine their applicability to product support process **(A-76)**. (2)

Note: (#) Indicates scheduled week

# Reengineering Product Support

(Continued)

- ◆ Given a scenario, identify and justify applicable commercial best practices. (3)
- ◆ Identify opportunities for partnering and related concepts. (3)
- ◆ Conduct cost/performance tradeoffs for a given product scenario. (3)
- ◆ Review lessons learned on reengineering and apply to a product support scenario. (4)
- ◆ Identify how financial constraints influence support decisions, and current environmental barriers to reengineering (**Core**). (5)
- ◆ Identify appropriate process change enablers to include **Performance Based Logistics and** contractor incentives. (5)
- ◆ Identify components of Total Ownership Cost and relationship to reengineering efforts. (5)

Note: (#) Indicates scheduled week

# Business Case Analysis (BCA)

- ◆ Identify the critical elements of a Business Case Analysis. (1)
- ◆ Identify the rules and tools of BCA. (1)
- ◆ Identify the unique characteristics of sample risk assessment methods and tools. (2)
- ◆ Given a scenario, identify appropriate risk assessment tools and methods, **mitigation strategies**, and justify their applicability. (2)
- ◆ Conduct a sample BCA of the logistics support structure **that includes DMS/MS issues and justify the selection of commercial or organic options.** (R)

Note: (#) Indicates scheduled week

# R&M and Configuration

- ◆ Determine how Reliability and Maintainability affect support costs and TOC. (1)
- ◆ Relate how R&M affect availability, effectiveness, and readiness. (1)
- ◆ Define the major functions of Configuration Mgt (CM). (5)
- ◆ Understand who uses and who performs CM. (5)
- ◆ Relate form, fit, function and interface to multiple configurations. (5)
- ◆ Define interface mgt., interchangeability, and substitutability. (5)
- ◆ Compare use of MILSPEC/MILSTD to commercial and open system profiles. (5)

Note: (#) Indicates scheduled week

# Supply Chain Management

- ◆ Identify Supply Chain Management (SCM) purposes and processes. (2)
- ◆ Understand SCM evaluation/measurement models. (2)
- ◆ Know requirements forecasting techniques and unique features. (3)
- ◆ Given a scenario, identify how to evaluate suppliers. (3)
- ◆ Understand the electronic business environment. (5)
- ◆ Know the DoD electronic commerce policy. (5)
- ◆ Understand electronic commerce relationships. (5)
- ◆ Given sample supply chain scenario, understand alternative sourcing options available and select best-practice SCM solutions. (R)

Note: (#) Indicates scheduled week

# Flexible Sustainment/Prime Vendor/Direct Vendor

- ◆ Research best practices in at least 2 sectors. (4)
- ◆ Include review of total asset visibility techniques. (4)
- ◆ Review customer requirements and identify applicable best practices in prime vendor with rationale/justification. (4)
- ◆ Given a sample program, analyze markets including those not covered by prime vendor arrangements, and develop product support strategies. (R)
- ◆ Given acquisition data, analyze and summarize how data is used to determine cost/price/performance tradeoffs. (R)

Note: (#) Indicates scheduled week

# Support Options

- ◆ Identify common support requirements and tools. (1)
- ◆ Given sample program, utilize tools to develop integrated support strategies for consolidated design and buying opportunities. (1)
- ◆ Identify contractor support options for total system performance as system integrators. (1)
- ◆ Given a choice of using commercial vs. organic support options, identify the benefits to the government with each option. (3)
- ◆ Identify sustainment processes, techniques, and interrelationships related to developing integrated strategies. (3)
- ◆ Given product support scenarios, apply rules and tools to determine the best application of contractor support. (3)
- ◆ Identify potential application of commercial inventory management processes/techniques and justify those decisions.(4)
- ◆ Given a sample program, determine the best (CLS dropped) solution to logistics support requirements. (R)

Note: (#) Indicates scheduled week

# Continuous Modernization

- ◆ Identify key concepts related to open systems architecture. (4)
- ◆ Apply and justify the use of open systems architecture. (4)
- ◆ Identify logistics issues related to interchangeability and substitutable items. (4)
- ◆ Develop and apply performance-based incentives to optimize support and motivate on-going product improvements. (4)
- ◆ Know the engineering change process and tools. (5)
- ◆ Understand VECP/LECP process to promote PBL. (5)
- ◆ **Identify benefits of service recapitalization strategies. (5)**
- ◆ Given a sample program, develop appropriate technology refreshment strategies. (R)
- ◆ Given a sample program, analyze logistics considerations related to implementing technology refreshment. (R)

Note: (#) Indicates scheduled week

# Commercial Integration

- ◆ Review definitions of commercial items. (2)
- ◆ Explain the benefits to the government by obtaining/using commercial items. (2)
- ◆ Given a commercial procurement, justify the selection of supply chain management options. (2)
- ◆ Identify logistics pros and cons of a commercial item based on its own specifications vs. MILSPEC products and practices. (3)
- ◆ Given a scenario, justify the use of commercial vs. MILSPEC. (3)
- ◆ Given a sample program, conduct an analysis of alternatives to select between development or commercial item. (R)
- ◆ Given user requirements for developmental item, analyze and challenge those requirements to determine commercial applicability to satisfy need. (R)

Note: (#) Indicates scheduled week

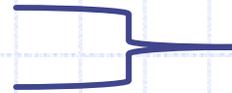
# LOG235

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Support Options Part 1		Support Options Part II	Support Options Part III		Support Options Part IV
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# Summary LOG235

◆ Business Case



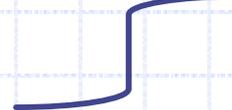
Why?

◆ Continuous Modernization



What?

◆ Supply Chain



◆ Commercial Integration

◆ Support Options

How?

◆ Flexible Sustainment

# Summary

- ◆ Plan Avoids High Cost of Web-based Development
- ◆ Maintains Course Quality
- ◆ Promotes Student/Instructor Interaction
- ◆ Meets Future Competencies
- ◆ Achievable In 12 Months
- ◆ Meets Throughput Requirements