



OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE  
3030 DEFENSE PENTAGON  
WASHINGTON, DC 20301-3030

MISSION CAPABILITIES

MEMORANDUM FOR COMPONENT ACQUISITION EXECUTIVES  
DIRECTORS, ACQUISITION CAREER/TALENT MANAGEMENT

SUBJECT: Recommended Continuous Learning Opportunities for the Engineering and Technical Management Functional Area

Reference: (a) DoDI 5000.66, "Defense Acquisition Workforce Education, Training, Experience, and Career Development Program," March 25, 2022  
(b) DoD Defense Acquisition Workforce Program Desk Guide, August 30, 2022

Reference (a) established policy to create a professional, agile, and motivated military and civilian acquisition workforce and tasked Functional Area Leaders to "establish and publish" continuous learning (CL) activities, as needed, to ensure acquisition workforce (AWF) members remain current in their respective functional area. All defense AWF members are required to earn 80 continuous learning points (CLPs) every 2 years (reference b).

Workforce members should consult with their supervisors to choose CL activities best suited to the position and individual, ensuring completion of primary certification training requirements of their encumbered position within the allotted grace period. To view the current certification requirements, select the Engineering and Technical Management (ETM) Foundational and Practitioner Defense Acquisition Workforce Improvement Act (DAWIA) Certification and Development Guides at <https://icatalog.dau.edu/onlinecatalog/CareerLvl.aspx>. Attachment 1, ETM Functional/Interdisciplinary Development Guide, of this memorandum contains recommended DAU CL opportunities for the ETM functional area to assist the workforce in identifying meaningful developmental activities beyond mandatory certification.

In addition to developing in-house learning assets, DAU has partnered with three commercial training providers (i.e., Coursera, LinkedIn Learning, and Skillsoft Percipio) to offer defense AWF members access to thousands of courses on leading-edge topics. Attachment 2, Commercial Training, contains information on how to access these opportunities.

DoD Components (i.e., Military Departments, Defense Agencies, and Field Activities) also sponsor ETM and other functional area training courses and CL activities. Workforce members can register for these offerings through their command or field activity processes. Links to Component acquisition management systems can be found below, and more information may be found in individual Component CL memos.

- (1) Army Civilian and Military Personnel: <https://www.atrrs.army.mil/aitas/>
- (2) Department of the Navy Civilian and Military Personnel: <https://www.atrrs.army.mil/Channels/navyedacm/>
- (3) Department of the Air Force Civilian and Military Personnel: <https://acqnow.atrrs.army.mil/>

- (4) Civilian Personnel employed by Defense Agencies and Field Activities:  
<https://www.atrrs.army.mil/datms>
- (5) Military Personnel assigned to Defense Agencies and Field Activities should consult the website for their Military Department

Defense AWF members may earn CLPs for participating in other learning activities that enable them to stay abreast of policy changes and initiatives in DoD and the defense industry. DAU publishes guidelines for creditable CL training, professional, experiential, and educational activities, along with point values, at <https://www.dau.edu/continuous-learning-center>. DoD also provides a guide to assist workforce members seeking to obtain an advanced technical degree: <https://www.cto.mil/wp-content/uploads/2023/06/Advanced-Tech-Degree-Guide-2020.pdf>.

Note that CLPs are awarded only for the year in which a workforce member completes an activity. For DAU courses, CLPs automatically flow to the workforce member's CLP tracking system upon completion; for other activities such as conference attendance, symposiums, workshops, and training completed outside of DAU (to include the commercial training referenced in Attachment 2), workforce members must manually request CLPs in their respective Component acquisition management system. Workforce members should follow Component procedures for obtaining and documenting CLPs.

Thomas W. Simms  
Principal Deputy Executive Director  
Systems Engineering and Architecture

Attachments:  
As stated

cc:  
Under Secretary of Defense for Research and Engineering (USD(R&E))  
President, Defense Acquisition University (DAU)  
Director, Human Capital Initiatives (HCI)

## ATTACHMENT 1

### Engineering and Technical Management Functional/Interdisciplinary Development Guide

#### A1.1 Engineering and Technical Management Functional/Interdisciplinary Development Course Guide

DAU has a substantial catalog of in-house training courses addressing a wide variety of acquisition-related topics in a DoD environment. The ETM workforce will find the subset of courses in the table that follows most relevant. These courses are accessible through DAU’s full course catalog at <https://icatalog.dau.edu/onlinecatalog/tabnavlas.aspx>.

Course Designator					
<b>ACQ</b>	Acquisition Management	<b>CME</b>	Contract Management –	<b>ISA</b>	Information Systems Acquisition
<b>BCE</b>	Business Cost Estimating		Engineering and Analysis	<b>LOG</b>	Logistics
<b>BFM</b>	Business Financial Management	<b>CMQ</b>	Contract Management – Quality	<b>PMT</b>	Program Management
<b>CLB</b>	Business	<b>CON</b>	Contracting	<b>RQM</b>	Requirements Management
<b>CLC</b>	Contract	<b>CYB</b>	Cybersecurity	<b>STM</b>	Science and Technology Management
<b>CLE</b>	Engineering & Technology	<b>ENG</b>	Engineering	<b>SWE</b>	Software Engineering
<b>CLM</b>	Acquisition & Management	<b>EVM</b>	Earned Value Management	<b>TST</b>	Test and Evaluation
<b>CLV</b>	Earned Value Management	<b>GRT</b>	Grants		

Functional/Interdisciplinary Development Courses		Delivery Mode <sup>1</sup>	CLPs	Certification Category	
				Foundational	Practitioner
<b>ACQ 160</b>	Program Protection Planning Awareness	OLT	12		✓
<b>ACQ 315/V</b>	Understanding Industry	CLRM/VILT	38		✓
<b>ACQ 1700/V</b>	Agile for DoD Acquisition Team Members	CLRM/VILT	14		✓
<b>ACQ 2020</b>	Intermediate Systems Acquisition, Part A	OLT	13	✓	✓
<b>ACQ 2030/V</b>	Intermediate Systems Acquisition, Part B	CLRM/VILT	32	✓	✓
<b>ACQ 3700V</b>	Acquisition Law	VILT	51		✓
<b>BCE 1000</b>	Fundamentals of Cost Estimating	OLT	18	✓	✓
<b>BFM 0020</b>	Program Execution	OLT	2		✓
<b>BFM 0040</b>	Budget Policy	OLT	2		✓

<sup>1</sup> Classroom (CLRM) | Online Training (OLT) | Virtual Instructor-Led Training (VILT)

<sup>2</sup> No CLPs are automatically awarded for third party-hosted (HOS) offerings or micro-learning assets under 1 hour in length; however, CLPs may be manually requested following Component procedures.

<sup>3</sup> HOS offerings are accessed through the DAU Virtual Campus (<https://dau.csod.com/>).

<sup>4</sup> New course; CLPs yet to be determined

Functional/Interdisciplinary Development Courses		Delivery Mode <sup>1</sup>	CLPs	Certification Category	
				Foundational	Practitioner
<b>BFM 0050</b>	Planning, Programming, Budgeting & Execution	OLT	3	✓	✓
<b>CLB 007</b>	Cost Analysis	OLT	3	✓	
<b>CLB 025</b>	Total Ownership Cost	OLT	2		✓
<b>CLB 026</b>	Forecasting Techniques	OLT	2	✓	
<b>CLB 029</b>	Rates	OLT	3	✓	
<b>CLB 030</b>	Data Collection and Sources	OLT	2		✓
<b>CLC 006</b>	Contract Terminations	OLT	1	✓	
<b>CLC 008</b>	Indirect Costs	OLT	1	✓	
<b>CLC 011</b>	Contracting for the Rest of Us	OLT	2	✓	
<b>CLC 013</b>	Services Acquisition	OLT	2		✓
<b>CLC 040</b>	Predictive Analysis and Scheduling	OLT	1	✓	✓
<b>CLC 041</b>	Predictive Analysis and Systems Engineering	OLT	1	✓	✓
<b>CLC 042</b>	Predictive Analysis and Quality Assurance	OLT	1	✓	
<b>CLC 043</b>	Defense Priorities and Allocations System	OLT	3	✓	✓
<b>CLC 047</b>	Contract Negotiation Techniques	OLT	1		✓
<b>CLC 056</b>	Analyzing Contract Costs	OLT	11	✓	
<b>CLC 059</b>	Management of Subcontracting Compliance	OLT	5	✓	
<b>CLC 060</b>	Time and Materials Contracts	OLT	1	✓	✓
<b>CLC 063</b>	Sole Source Proposal Technical Evaluations	OLT	3		✓
<b>CLC 106</b>	Contracting Officer's Representative with a Mission Focus	OLT	3		✓
<b>CLC 113</b>	Procedures, Guidance, and Information	OLT	1		✓
<b>CLE 001</b>	Value Engineering	OLT	2	✓	✓
<b>CLE 003</b>	Technical Reviews	OLT	3	✓	✓
<b>CLE 004</b>	Introduction to Lean Enterprise Concepts	OLT	3	✓	
<b>CLE 007</b>	Lean Six Sigma for Manufacturing	OLT	4	✓	✓
<b>CLE 008</b>	Six Sigma: Concepts and Processes	OLT	2	✓	✓

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				Foundational	Practitioner
<b>CLE 009</b>	ESOH in Systems Engineering	OLT	3	✓	✓
<b>CLE 015</b>	Continuous Process Improvement Familiarization	OLT	1	✓	
<b>CLE 017</b>	Technical Planning	OLT	3	✓	✓
<b>CLE 019</b>	Modular Open Systems Approach (MOSA)	OLT	4		✓
<b>CLE 022</b>	Program Manager Introduction to Anti-Tamper	OLT	2	✓	
<b>CLE 023</b>	Modeling and Simulation in Test and Evaluation	OLT	4		✓
<b>CLE 026</b>	Trade Studies	OLT	2		✓
<b>CLE 028</b>	Market Research for Engineering and Technical Personnel	OLT	3	✓	
<b>CLE 035</b>	Introduction to Probability and Statistics	OLT	5	✓	✓
<b>CLE 036</b>	Engineering Change Proposals for Engineers	OLT	6		✓
<b>CLE 065</b>	Standardization Documents	OLT	5		✓
<b>CLE 066</b>	Systems Engineering for Systems of Systems	OLT	3		✓
<b>CLE 068</b>	Intellectual Property and Data Rights	OLT	4	✓	✓
<b>CLE 069</b>	Technology Transfer	OLT	3		✓
<b>CLE 074</b>	Cybersecurity Throughout DoD Acquisition	OLT	3	✓	✓
<b>CLE 075</b>	Introduction to DoD Cloud Computing	OLT	4		✓
<b>CLE 076</b>	Introduction to Agile Software Acquisition	OLT	5		✓
<b>CLE 077</b>	Defense Business Systems (DBS) Acquisition	OLT	5		✓
<b>CLE 078</b>	Software Acquisition for the Program Office Workforce (SAPOW)	OLT	4		✓
<b>CLE 080</b>	SCRM for Information and Communications Technology (ICT)	OLT	3		✓
<b>CLE 083</b>	Information Technology Service Management (ITSM)	OLT	2		✓
<b>CLE 084</b>	Models, Simulations, and Digital Engineering	OLT	5		✓
<b>CLE 301</b>	Reliability and Maintainability	OLT	3	✓	✓
<b>CLM 005</b>	Industry Proposals and Communication	OLT	2		✓
<b>CLM 025</b>	Commercial-Off-The-Shelf (COTS) Acquisition for Program Managers	OLT	2	✓	
<b>CLM 031</b>	Improved Statement of Work	OLT	3		✓

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				Foundational	Practitioner
<b>CLM 058</b>	Critical Thinking	OLT	2	✓	✓
<b>CLM 071</b>	Introduction to Data Management	OLT	1	✓	
<b>CLM 072</b>	Data Management Strategy Development	OLT	2		✓
<b>CLM 073</b>	Data Management Planning System	OLT	2		✓
<b>CLM 077</b>	Data Management Protection and Storage	OLT	3		✓
<b>CLV 016</b>	Introduction to Earned Value Management	OLT	1	✓	✓
<b>CLV 017</b>	Performance Measurement Baseline	OLT	4	✓	✓
<b>CME 103</b>	Manufacturing and Delivery Surveillance	OLT	3	✓	
<b>CME 130</b>	Surveillance Implications of Manufacturing and Subcontractor Management	OLT	8	✓	
<b>CMQ 100</b>	Quality Assurance Basics	OLT	5	✓	
<b>CMQ 131</b>	Data Collection and Analysis	OLT	7	✓	
<b>CMQ 220</b>	Root Cause Analysis	OLT	6		✓
<b>CON 0072</b>	Source Selection	OLT	8	✓	
<b>CYB 0030</b>	Introduction to Cyber Attack Kill Chain	OLT	2	✓	
<b>CYB 5610</b>	Cybersecurity & Resiliency for Weapons, Control, and IT Systems	OLT	4	✓	
<b>CYB 5620V</b>	Adversity-Driven Engineering Fundamentals	VILT	16	✓	✓
<b>CYB 5630V</b>	Cyber Table Top	VILT	15		✓
<b>CYB 5640/V</b>	Cyber Training Range	CLRM/VILT	20	✓	✓
<b>ENG 0620</b>	Human Systems Integration	OLT	2	✓	✓
<b>ENG 0720</b>	ISO 9000	OLT	1	✓	
<b>ENG 0810</b>	Software Assurance Awareness	OLT	3		✓
<b>ENG 0850</b>	Reliability and Maintainability (R&M) Engineering Management	OLT	7	✓	✓
<b>ENG 0860</b>	Planning for R&M Engineering	OLT	6	✓	✓
<b>ENG 0870</b>	Designing for R&M Engineering	OLT	6	✓	✓
<b>ENG 0880</b>	Procurement for R&M Engineering	OLT	6	✓	✓

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				Foundational	Practitioner
<b>ENG 0890</b>	Program and Technical Reviews for R&M Engineering	OLT	5	✓	✓
<b>ENG 0900</b>	R&M Engineering Interface with Product Support	OLT	5	✓	✓
<b>ENG 1110</b>	Stakeholder Requirements	OLT	7	✓	✓
<b>ENG 1400</b>	Intro to AI in Reliability & Maintainability	OLT	See note #4	✓	
<b>ENG 1410</b>	Intro to AI in System Safety Engineering I	OLT	See note #4	✓	
<b>ENG 260</b>	Program Protection for Practitioners	OLT	14		✓
<b>ENG 5510</b>	Digital Engineering Using SysML	OLT	10	✓	✓
<b>ETM 3110</b>	IT Foundations	OLT	3	✓	
<b>ETM 3120</b>	Best Practices in Software and Cybersecurity	OLT	1	✓	
<b>ETM 3130</b>	Introduction to Digital Acquisition	OLT	1	✓	
<b>ETM 3140</b>	Introduction to Machine Learning and AI	OLT	2	✓	
<b>ETM 3150</b>	Introduction to Emerging Technology	OLT	2	✓	
<b>EVM 101</b>	Fundamentals of Earned Value Management	OLT	13	✓	✓
<b>GRT 201V</b>	Grants and Agreements Management	VILT	25		✓
<b>HOS 0020</b> <sup>3</sup>	Agile: Testing Approaches	OLT	See note #2	✓	✓
<b>HOS 0022</b> <sup>3</sup>	Set up a Continuous Integration (CI) workflow in CircleCI	OLT	See note #2	✓	✓
<b>HOS 0023</b> <sup>3</sup>	Jenkins: Automating your delivery pipeline	OLT	See note #2	✓	✓
<b>HOS 0024</b> <sup>3</sup>	Build local development environments using Docker containers	OLT	See note #2	✓	✓
<b>HOS 0025</b> <sup>3</sup>	Selenium Test Execution on Docker Containers	OLT	See note #2	✓	✓
<b>HOS 0026</b> <sup>3</sup>	Test Driven Development in Java for Beginners	OLT	See note #2	✓	✓
<b>HOS 0027</b> <sup>3</sup>	Manage your versions with Git I	OLT	See note #2	✓	✓
<b>HOS 0028</b> <sup>3</sup>	Manage your versions with Git II	OLT	See note #2	✓	✓
<b>HOS 0029</b> <sup>3</sup>	Building Test Automation Framework using Selenium and TestNG	OLT	See note #2	✓	✓
<b>HOS 0030</b> <sup>3</sup>	Create your First Automate Script using Selenium and Java	OLT	See note #2	✓	✓
<b>HOS 0031</b> <sup>3</sup>	Web Application Security Testing with OWASP ZAP	OLT	See note #2	✓	✓
<b>HOS 0036</b> <sup>3</sup>	AI for Everyone	OLT	See note #2	✓	✓

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				Foundational	Practitioner
<b>HOS 0041</b> <sup>3</sup>	Manage Agile Workflows with Product Roadmaps in Miro	OLT	See note #2	✓	✓
<b>HOS 0048</b> <sup>3</sup>	Agile Projects Developing Tasks with Taiga	OLT	See note #2	✓	✓
<b>HOS 0049</b> <sup>3</sup>	Monitoring & Telemetry for Production Systems by creating Dashboards using Prometheus & Grafana - Part I	OLT	See note #2	✓	✓
<b>HOS 0054</b> <sup>3</sup>	Use Python Unit Test to Demonstrate TDD	OLT	See note #2	✓	✓
<b>ISA 1011</b>	Basic Information Systems Acquisition	OLT	10	✓	
<b>ISA 220</b>	Risk Management Framework (RMF) for the Practitioner	OLT	10		✓
<b>LOG 0080</b>	Designing for Supportability in DoD Systems	OLT	3		✓
<b>LOG 0110</b>	Introduction to Performance-Based Logistics (PBL)	OLT	3	✓	
<b>LOG 0120</b>	Supportability Analysis Fundamentals	OLT	8		✓
<b>LOG 0150</b>	Product Support Business Case Analysis (BCA)	OLT	2		✓
<b>LOG 0220</b>	Title 10 Depot Maintenance Statute Overview	OLT	1		✓
<b>LOG 0230</b>	Title 10 U.S.C. 2464 Core Statute Implementation	OLT	2		✓
<b>LOG 0240</b>	Title 10 Limitations on the Performance of Depot-Level Maintenance (50/50)	OLT	1		✓
<b>LOG 0250</b>	Depot Maintenance Interservice Support Agreements (DMISA)	OLT	3		✓
<b>LOG 0270</b>	Introduction to DoD Software Lifecycle Management	OLT	4		✓
<b>LOG 0320</b>	Preventing Counterfeit Electronic Parts from Entering the DoD Supply System	OLT	1	✓	
<b>LOG 0390</b>	Additive Manufacturing Overview	OLT	3	✓	✓
<b>LOG 0400</b>	Additive Manufacturing Case Studies	OLT	2	✓	✓
<b>LOG 0620</b>	Counterfeit Prevention Awareness	OLT	2	✓	
<b>LOG 0670</b>	Diminishing Manufacturing Sources and Material Shortages (DMSMS) Basic Component Research	OLT	2		✓
<b>LOG 1000</b>	Life Cycle Logistics Fundamentals	OLT	7	✓	✓
<b>LOG 104</b>	Reliability, Availability, and Maintainability (RAM)	OLT	6	✓	✓
<b>LOG 105</b>	Fundamentals of System Sustainment Management	OLT	6	✓	

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				Foundational	Practitioner
<b>LOG 200</b>	Product Support Strategy Development, Part A	OLT	9	✓	✓
<b>LOG 2010/V</b>	Product Support Strategy Development, Part B	CLRM/OLT	28		✓
<b>LOG 2040</b>	Configuration Management	OLT	7	✓	✓
<b>LOG 2060</b>	Intermediate Systems Sustainment Management	OLT	7		✓
<b>LOG 211V</b>	Supportability Analysis	VILT	30		✓
<b>LOG 2350</b>	Performance-Based Logistics (PBL)	OLT	8	✓	✓
<b>LOG 3500V</b>	Enterprise Life Cycle Logistics Management	VILT	56		✓
<b>PMT 0120</b>	Program Scheduling	OLT	4	✓	✓
<b>PMT 0130</b>	Work-Breakdown Structure	OLT	3	✓	✓
<b>PMT 0140</b>	Team Management and Leadership	OLT	6	✓	✓
<b>PMT 0160</b>	Cost Estimating	OLT	4	✓	✓
<b>PMT 0170</b>	Risk Management	OLT	8	✓	✓
<b>PMT 2570V</b>	Program Management Tools Course	VILT	33	✓	✓
<b>PMT 3400</b>	Leadership and Organization	OLT	3		✓
<b>PMT 3500</b>	Business Aspects	OLT	2		✓
<b>PMT 3600/V</b>	Program Management Office Course	CLRM/VILT	68		✓
<b>PMT 4010/V</b>	Program Management Course	CLRM/VILT	193		✓
<b>RQM 1010</b>	Introduction to the Joint Capabilities Integration & Development System (JCIDS)	OLT	4	✓	✓
<b>RQM 1510</b>	Analysis of Alternatives	OLT	2		✓
<b>RQM 2500</b>	Capabilities-Based Assessments	OLT	3		✓
<b>STM 0010</b>	Prototyping and Experimentation	OLT	3		✓
<b>STM 0020</b>	Fundamentals of Science and Technology Protection	OLT	5	✓	
<b>STM 1010</b>	Introduction to DoD Science and Technology Management	OLT	4	✓	
<b>STM 2040</b>	Technology Project Management	OLT	3	✓	✓
<b>STM 2050</b>	Science and Technology Strategy	OLT	3		✓

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<b>STM 2060V</b>	Technology Portfolio Management	VILT	19		✓
<b>SWE 0001</b>	Planning for Spikes	OLT	See note #2		✓
<b>SWE 0002</b>	Software Modernization Elements	OLT	1		✓
<b>SWE 0004</b>	Container Orchestration Tools	OLT	See note #2		✓
<b>SWE 0005</b>	Software Modernization Operational Advantages	OLT	See note #2		✓
<b>SWE 0006</b>	Software Modernization Strategies	OLT	See note #2		✓
<b>SWE 0007</b>	Introduction to Modern Software Reuse	OLT	See note #2		✓
<b>SWE 0009</b>	Contracting for Agile Development	OLT	See note #2		✓
<b>SWE 0010</b>	Agile DevSecOps Team Roles and Responsibilities	OLT	See note #2		✓
<b>SWE 0012</b>	Microservice Architecture for DevSecOps	OLT	See note #2		✓
<b>SWE 0013</b>	Agile Organizational Optimization	OLT	See note #2		✓
<b>SWE 0014</b>	User Story Construction	OLT	See note #2		✓
<b>SWE 0016</b>	Capability Needs Statement	OLT	See note #2		✓
<b>SWE 0017</b>	Value Assessment (5000.87)	OLT	See note #2		✓
<b>SWE 0018</b>	DoD Modeling & Simulation	OLT	See note #2		✓
<b>SWE 0019</b>	Agile Backlog Refinement	OLT	See note #2		✓
<b>SWE 0020</b>	Test Driven Development (TDD)	OLT	See note #2		✓
<b>SWE 0021</b>	Behavior Driven Development (BDD)	OLT	See note #2		✓
<b>SWE 0024</b>	Sustainable Pace	OLT	See note #2		✓
<b>SWE 0025</b>	Iteration and Release Retrospective	OLT	See note #2		✓
<b>SWE 0026</b>	DevSecOps	OLT	1		✓
<b>SWE 0027</b>	Principles of DevSecOps	OLT	See note #2		✓
<b>SWE 0028</b>	Software Technical Currency	OLT	See note #2		✓
<b>SWE 0029</b>	Continuous Delivery/Deployment (CD)	OLT	See note #2		✓
<b>SWE 0032</b>	Product Roadmap	OLT	1		✓
<b>SWE 0033</b>	Software Architecture Patterns	OLT	1		✓

<sup>1</sup> Classroom (CLRM) | Online Training (OLT) | Virtual Instructor-Led Training (VILT)

<sup>2</sup> No CLPs are automatically awarded for third party-hosted (HOS) offerings or micro-learning assets under 1 hour in length; however, CLPs may be manually requested following Component procedures.

<sup>3</sup> HOS offerings are accessed through the DAU Virtual Campus (<https://dau.csod.com/>).

<sup>4</sup> New course; CLPs yet to be determined

Functional/Interdisciplinary Development Courses		Delivery Mode <sup>1</sup>	CLPs	Certification Category	
				Foundational	Practitioner
<b>SWE 0034</b>	Software Acquisition Pathway (SWP)	OLT	1		✓
<b>SWE 0039</b>	Mission Systems T&E	OLT	See note #2		✓
<b>SWE 0040</b>	Modeling and Simulation	OLT	See note #2		✓
<b>SWE 0041</b>	Software Acquisition Pathway (SWP) Origins	OLT	1		✓
<b>SWE 0042</b>	Tempo and Stability	OLT	See note #2		✓
<b>SWE 0044</b>	Value Metrics	OLT	See note #2		✓
<b>SWE 0045</b>	Metric Interpretation	OLT	1		✓
<b>SWE 0046</b>	DoD Modern Software Reuse	OLT	See note #2		✓
<b>SWE 0048</b>	Program Test & Evaluation Strategy (TES)	OLT	See note #2		✓
<b>SWE 0049</b>	What is Open-Source Software (OSS)	OLT	See note #2		✓
<b>SWE 0050</b>	Build a Product Vision	OLT	See note #2		✓
<b>SWE 0051</b>	Developing Software Product Lines	OLT	See note #2		✓
<b>SWE 0052</b>	Build a Release Plan	OLT	See note #2		✓
<b>SWE 0053</b>	User Agreement	OLT	1		✓
<b>SWE 0054</b>	Software Initial Capability Document	OLT	See note #2		✓
<b>SWE 0055</b>	Kanban Board	OLT	See note #2		✓
<b>SWE 0056</b>	What is Artificial Intelligence	OLT	2		✓
<b>SWE 0057</b>	What is Machine Learning	OLT	1		✓
<b>SWE 0058</b>	Overview of AI in the DoD	OLT	1		✓
<b>SWE 0062</b>	Architecture Approaches for Agile Programs	OLT	1		✓
<b>SWE 0063</b>	Software Factory	OLT	See note #2		✓
<b>SWE 0064</b>	DoD Software Factory Strategy	OLT	See note #2		✓
<b>SWE 0070</b>	Flow Metrics	OLT	See note #2		✓
<b>SWE 0072</b>	Continuous Integration (CI)	OLT	See note #2		✓
<b>SWE 0074</b>	Strangler Pattern	OLT	See note #2		✓
<b>SWE 0075</b>	Successful Software Transformation Example	OLT	See note #2		✓

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<sup>4</sup> New course; CLPs yet to be determined

Functional/Interdisciplinary Development Courses		Delivery Mode <sup>1</sup>	CLPs	Certification Category	
				Foundational	Practitioner
<b>SWE 0077</b>	Software Build Automation Tools	OLT	See note #2		✓
<b>SWE 0078</b>	Software Test Tools	OLT	See note #2		✓
<b>SWE 0079</b>	Software Security Test Tools	OLT	1		✓
<b>SWE 0084</b>	Software Operations Tools	OLT	See note #2		✓
<b>SWE 0085</b>	Software Configuration Management (SCM) Tool Selection	OLT	See note #2		✓
<b>SWE 0089</b>	What is Scrum	OLT	See note #2		✓
<b>SWE 0093</b>	Software Configuration Management 101	OLT	See note #2		✓
<b>SWE 0096</b>	Cloud and DevSecOps Guidance	OLT	1		✓
<b>SWE 0097</b>	What is Speed of Relevance (SoR) for the DoD	OLT	See note #2		✓
<b>SWE 0098</b>	Benefits of Agile for DoD Acquisition	OLT	1		✓
<b>SWE 0099</b>	Setting up an Agile Project	OLT	1		✓
<b>SWE 0100</b>	Relative Effort Estimation for Agile Projects	OLT	1		✓
<b>SWE 0101</b>	Software Version Control	OLT	See note #2		✓
<b>SWE 0102</b>	Introduction to Cloud Services	OLT	1		✓
<b>SWE 0103</b>	What is a Service Mesh	OLT	See note #2		✓
<b>SWE 0104</b>	Software Configuration Management Release	OLT	See note #2		✓
<b>SWE 2002</b>	What is a Software Development Plan (SDP)	OLT	See note #2		✓
<b>SWE 2003</b>	Scaled Agile	OLT	See note #2		✓
<b>SWE 2006</b>	What is eXtreme Programming (XP)	OLT	See note #2		✓
<b>SWE 2014</b>	Configuration as Code (CaC)	OLT	See note #2		✓
<b>SWE 2015</b>	Security as Code (SaC)	OLT	See note #2		✓
<b>SWE 2016</b>	Infrastructure as Code (IaC)	OLT	See note #2		✓
<b>SWE 2017</b>	Secure Coding	OLT	1		✓
<b>SWE 2025</b>	Value Stream Mapping	OLT	See note #2		✓
<b>SWE 2030</b>	What is Agile	OLT	See note #2		✓
<b>SWE 2031</b>	What Agile Means for the Defense Acquisition Workforce	OLT	See note #2		✓

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<sup>3</sup> HOS offerings are accessed through the DAU Virtual Campus (<https://dau.csod.com/>).

<sup>4</sup> New course; CLPs yet to be determined

Functional/Interdisciplinary Development Courses		Delivery Mode <sup>1</sup>	CLPs	Certification Category	
				Foundational	Practitioner
<b>SWE 2040</b>	Application of Agile	OLT	See note #2		✓
<b>SWE 2046</b>	What is a Container	OLT	1		✓
<b>SWE 2047</b>	DevSecOps Terminology	OLT	See note #2		✓
<b>SWE 2048</b>	GitOps	OLT	See note #2		✓
<b>SWE 2049</b>	Program-Level Data Strategies	OLT	See note #2		✓
<b>SWE 2050</b>	Intellectual Property (IP) and Data Rights	OLT	1		✓
<b>SWE 2060</b>	What is a Microservice	OLT	See note #2		✓
<b>TST 102</b>	Fundamentals of Test and Evaluation	OLT	17	✓	
<b>TST 1100</b>	Intro to Systems Engineering for Testers	OLT	10	✓	
<b>TST 2040/V</b>	Test and Evaluation for Practitioners	CLRM/VILT	72		✓
<b>TST 2100</b>	Applied Systems Engineering for Testers	OLT	9		✓

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<sup>3</sup> HOS offerings are accessed through the DAU Virtual Campus (<https://dau.csod.com/>).

<sup>4</sup> New course; CLPs yet to be determined

## A1.2 Engineering and Technical Management Functional/Interdisciplinary Development Workshop Guide

Additionally, DAU offers a diverse spectrum of structured open enrollment workshops on a rotating basis each month. The full catalog of workshops available for individual enrollment is available at [https://icatalog.dau.edu/onlinecatalog/targeted\\_training.aspx](https://icatalog.dau.edu/onlinecatalog/targeted_training.aspx).

Workshop Designator					
<b>WSA</b> Software Acquisition	<b>WSE</b> Engineering & Technology	<b>WSM</b> Acquisition & Management			
<b>WSC</b> Contracting	<b>WSL</b> Logistics	<b>WSS</b> Cybersecurity			

Functional/Interdisciplinary Development Workshops	Delivery Mode	CLPs	Certification Category	
			Foundational	Practitioner
<b>WSA 001</b> DevSecOps for the DoD: Fundamentals	Workshop	21		✓
<b>WSA 002</b> DevSecOps for the DoD: Security Focus	Workshop	14		✓
<b>WSA 004</b> Cloud Services	Workshop	21		✓
<b>WSA 010</b> Agile Product Owner	Workshop	4		✓
<b>WSC 005</b> Source Selection	Workshop	14		✓
<b>WSC 015</b> Negotiation Training for the Acquisition Workforce	Workshop	14		✓
<b>WSE 005</b> Systems Engineering Planning	Workshop	5		✓
<b>WSE 027</b> MOSA Awareness and Planning	Workshop	2		✓
<b>WSE 030</b> SysML Immersion, Part I	Workshop	16		✓
<b>WSE 031</b> SysML Immersion, Part II	Workshop	16		✓
<b>WSL 001</b> Performance-Based Logistics	Workshop	15		✓
<b>WSM 002</b> Risk Management	Workshop	7		✓
<b>WSM 025</b> Defense Business System	Workshop	24		✓
<b>WSM 027</b> Multi-Functional Acquisition Challenge	Workshop	24		✓
<b>WSS 005</b> Program Protection	Workshop	8		✓
<b>WSS 011</b> Cyber Training Range – Intermediate	Workshop	16		✓
<b>WSS 012</b> Defensive Cyber Operations	Workshop	24		✓
<b>WSS 013</b> Advanced Cyber Training Range – Aviation Systems	Workshop	21		✓

### A1.3 Engineering and Technical Management Functional Development Credential Guide

Defense acquisition credentials are an important CL resource for job-specific training. Credentials are not mandatory but provide workforce members a means to gain new skills and keep existing ones fresh throughout their career. The table below contains ETM credentials currently deployed and in development. Section A1.4 includes a list of interdisciplinary credentials recommended for the ETM workforce. The full catalog of available credentials is accessible at [https://icatalog.dau.edu/onlinecatalog/tabnav\\_credentials.aspx](https://icatalog.dau.edu/onlinecatalog/tabnav_credentials.aspx).

Functional Development Credentials			
Credential		CLPs	Date Deployed
CCYB 001	Program Protection	35	April 2020
CCYB 002A	Cybersecurity for Program Managers	9	December 2020
CCYB 003	Fundamental Secure Cyber-Resilient Engineering	18	September 2024
CCYB 004	Intermediate Secure Cyber-Resilient Engineering	57	September 2024
CENG 001	Digital Engineering for DoD Consumers	29	October 2019
CENG 002A	Data Analytics for DoD Acquisition Managers	30	August 2020
CENG 003	Artificial Intelligence Foundations in the DoD	13	February 2024
CENG 004	Agile DoD Team Member	21	October 2019
CENG 012	Technology Project Management	10	April 2023
CENG 013	Technology Portfolio Management	25	September 2024
Credential		Estimated Deployment	
CENG 005	Fundamental Mission Engineering	TBD	
CENG 008	Software Engineering Intermediate	TBD	
CENG 016	Intermediate Systems Engineering Requirements & Architecture	TBD	
CENG 017	Intermediate Systems Engineering Management	TBD	
CENG 018	Intermediate Systems Engineering Product Development	TBD	
CENG 026	Quality Surveillance	TBD	
CENG 028	Intermediate Digital Engineering	FY 2026	
CENG 031	Basics of DoD Software Modernization	FY 2025	
CENG 032	Introduction to DevSecOps Employed in DoD	FY 2025	
CENG 033	Strategic Planning for DevSecOps Implementation	FY 2025	
CENG 034	DevSecOps Continuous Development in DoD	FY 2025	
CENG 035	DevSecOps Continuous Delivery in DoD	TBD	
CENG 036	Modern Software Configuration Management Strategies	TBD	
CENG 037	Securing the DevSecOps Pipeline	TBD	

## A1.4 Engineering and Technical Management Interdisciplinary Development Credential Guide

The table below contains available interdisciplinary credentials that are relevant to the ETM workforce. The full catalog of available credentials is accessible at [https://icatalog.dau.edu/onlinecatalog/tabnav\\_credentials.aspx](https://icatalog.dau.edu/onlinecatalog/tabnav_credentials.aspx).

Owning Functional Area/Organization			
<b>CACQ</b>	Program Management	<b>CCON</b>	Contracting
<b>CALD</b>	Defense Systems Management College	<b>CLCL</b>	Life Cycle Logistics

Interdisciplinary Development Credentials			
Credential		CLPs	Date Deployed
CACQ 002	Services Acq Team Member: Acq Professional Team Members	50	October 2019
CACQ 004	Introduction to Risk, Issue, and Opportunity Management	6	September 2020
CACQ 005	Foundational Earned Value Management	3	July 2022
CACQ 008	Foundational Intellectual Property	22	September 2020
CACQ 010	Foundational Acquisition Intelligence	47	July 2022
CACQ 011	Foundational Software Acquisition Management	30	December 2022
CACQ 013	Functional Services Manager	45	June 2022
CACQ 014	Facilities Engineering	54	August 2024
CALD 001	Resilience	17	April 2022
CCON 011	Construction Contracting	76	July 2021
CCON 016	Excel Skills for Data Analysis & Visualization	55	May 2022
CCON 017	Pricing Tools and Techniques	41	August 2022
CCON 019	Negotiations	33	July 2024
CCON 023	Other Transaction Authority	22	October 2022
CLCL 001	Product Support Management Fundamentals	37	July 2021
CLCL 002A	Integrated Product Support	34	February 2023
CLCL 003A	Supply Chain Integration	34	November 2022
CLCL 004	Maintenance Planning and Management	26	December 2021
CLCL 005	Supportability & Design Interface	36	July 2021
CLCL 006	Designing Supportable Systems	39	May 2022
CLCL 007	Product Support Analysis	42	June 2022
CLCL 008	Product Support Arrangements	41	August 2022
CLCL 009	Information Technology Life Cycle Support	37	March 2021
CLCL 010	Technical Data Management	37	February 2022
CLCL 011	Product Support Affordability & Cost Fundamentals	20	July 2021
CLCL 012A	Product Support O&S Cost Management	15	November 2021
CLCL 013	Packaging, Handling, Storage & Transportation	26	November 2022
CLCL 014A	Parts & Material Life Cycle Management	44	January 2023
CLCL 015	Product Support Infrastructure	20	September 2022
CLCL 016	Digital Product Support	25	February 2024
CLCL 018	Product Support Data Requirements	50	June 2024



## ATTACHMENT 2

### Commercial Training

DAU has contracted with three commercial training providers (i.e., Coursera, LinkedIn Learning, and Skillsoft Percipio) to offer defense acquisition workforce members (i.e., military and civilian) access to thousands of courses on leading edge topics. Individual courses can be taken at any time and this access comes at no cost to the students or their organizations. Completions are documented in a student's DAU transcript.

Coursera offers individual courses, topical specializations, and professional credentials from top colleges and corporations. LinkedIn Learning and Skillsoft Percipio grant access to over 40,000 learning assets in a variety of formats, lengths, and topics. Examples of offerings are listed in the table below.

Course/Program	Provider
Cloud Computing Foundations	Coursera – Duke University
Introduction to Containers w/ Docker, Kubernetes & OpenShift	Coursera – IBM
Continuous Delivery and DevOps	Coursera – University of Virginia
Engineering Project Management	Coursera – Rice University
Executive Data Science	Coursera – Johns Hopkins University
Applied Data Science with Python	Coursera – University of Michigan
Developing a Critical Thinking Mindset	LinkedIn Learning
Building Your Team	LinkedIn Learning
UX DesignOps: Overview	LinkedIn Learning
Software Design: Human-centered Software Design	Skillsoft Percipio
Artificial Intelligence: Introduction to Artificial Intelligence	Skillsoft Percipio
Leading Innovation	Skillsoft Percipio

These commercial offerings are accessed through the DAU Virtual Campus (<https://dau.csod.com/>), which requires an account and login, by using filters or the search function.