



# Available Learning Assets for ETM Credentials in Development

a/o September 19, 2024

Register for these learning assets through DAU's Course Catalog: <https://icatalog.dau.edu/onlinecatalog/tabnavlas.aspx>

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## CCYB 003: Fundamental Secure Cyber-Resilient Engineering

DAU

- CLE 074 Cybersecurity Throughout DoD Acquisition
- CLE 080 Supply Chain Risk Management (SCRM) for Information and Communications Technology
- ENG 0810 Software Assurance Awareness
- CYB 5610 Cybersecurity & Resiliency for Weapons, Control, and IT Systems

**Awaiting Capstone**

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## CENG 020: Manufacturing Surveillance

DAU

- CLC 043 Defense Priorities & Allocations System
- CME 103 Manufacturing and Delivery Surveillance
- CME 130 Surveillance Implications of Manufacturing and Subcontractor Management
- CME 230 Production Planning and Control
- CMQ 1310 Data Collection and Analysis
- CMQ 220 Root Cause Analysis
- PMT 0170 Risk Management

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## CENG 013: Technology Portfolio Management

DAU

- STM 2050 Science & Technology Strategy
- STM 2060V Technology Portfolio Management

**Awaiting Capstone**

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## CCYB 004: Intermediate Secure Cyber-Resilient Engineering

DAU

- CYB 5620V Adversity-Driven Engineering Fundamentals
- CYB 5630V Cyber Table Top
- CYB 5640 Cyber Training Range

**Awaiting Capstone**

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## CENG 026: Quality Surveillance

DAU

- CLE 015 Continuous Process Improvement Familiarization
- CMQ 1310 Data Collection and Analysis
- CMQ 200 Statistical Sampling
- CMQ 212V Effective Control of Nonconforming Material
- CMQ 220 Root Cause Analysis
- CMQ 261 Reliability Analysis
- LOG 0130 DoD Packaging
- PMT 0170 Risk Management

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## CENG 016: Intermediate Systems Engineering Requirements & Architecture

DAU

- ENG 1110 Stakeholder Requirements

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## CENG 028: Intermediate Digital Engineering

DAU

- ENG 5510 Digital Engineering Using SysML

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## CENG 005: Fundamental Mission Engineering

DAU

- ETM 1020 Mission and Systems Thinking Fundamentals
- ETM 1030 Requirements Definition and Analysis Fundamentals



# Available Learning Assets for ETM Credentials in Development (cont.)

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CENG 031 (38 of 38) | CENG 032 (67 of 70) | CENG 033 (62 of 70) | CENG 034 (31 of 42) | CENG 035 (15 of 23) | CENG 036 (14 of 17) | CENG 037 (15 of 27)

\* Unique learning assets across the entire credential series

### 3<sup>rd</sup> Party

- HOS 0020 Agile: Testing Approaches
- HOS 0022 Set up a Continuous Integration (CI) workflow in CircleCI
- HOS 0023 Jenkins: Automating your delivery pipeline
- HOS 0024 Build local development environments using Docker containers
- HOS 0025 Selenium Test Execution on Docker Containers
- HOS 0026 Test Driven Development in Java for Beginners
- HOS 0027 Manage your versions with Git I
- HOS 0028 Manage your versions with Git II
- HOS 0029 Building Test Automation Framework using Selenium and TestNG
- HOS 0030 Create your First Automate Script using Selenium and Java
- HOS 0031 Web Application Security Testing with OWASP ZAP
- HOS 0034 What is Scrum
- HOS 0041 Manage Agile Workflows with Product Roadmaps in Miro
- HOS 0048 Agile Projects Developing Tasks with Taiga
- HOS 0049 Monitoring & Telemetry for Production Systems
- HOS 0054 Use Python Unit Test to Demonstrate TDD

### DAU

- SWE 0001 Planning for Spikes
- SWE 0002 Software Modernization Elements
- SWE 0004 Container Orchestration Tools
- SWE 0005 Software Modernization Operational Advantages
- SWE 0006 Software Modernization Strategies
- SWE 0007 Introduction to Modern Software Reuse
- SWE 0009 Contracting for Agile Development
- SWE 0010 Agile DevSecOps Team Roles & Responsibilities
- SWE 0012 Microservice Architecture for DevSecOps
- SWE 0013 Agile Organizational Optimization
- SWE 0014 User Story Construction
- SWE 0015 Introduction: What is DoDI 5000.87
- SWE 0016 Capability Needs Statement
- SWE 0017 Value Assessment (5000.87)
- SWE 0018 DoD Modeling & Simulation
- SWE 0019 Agile Backlog Refinement
- SWE 0020 Test Driven Development
- SWE 0021 Behavior Driven Development
- SWE 0024 Sustainable Pace
- SWE 0025 Iteration and Release Retrospective
- SWE 0026 DevSecOps
- SWE 0027 Principles of DevSecOps
- SWE 0028 Software Technical Currency
- SWE 0029 Continuous Delivery/Deployment
- SWE 0032 Product Roadmap
- SWE 0033 Software Architecture Patterns
- SWE 0034 Software Acquisition Pathway
- SWE 0039 Mission Systems T&E
- SWE 0040 Modeling & Simulation
- SWE 0041 Software Acquisition Pathway Origins
- SWE 0042 Tempo and Stability
- SWE 0044 Value Metrics
- SWE 0045 Metric Interpretation
- SWE 0046 DoD Modern Software Reuse
- SWE 0048 Program Test & Evaluation Strategy
- SWE 0049 What is Open-Source Software
- SWE 0050 Build a Product Vision
- SWE 0051 Developing Software Product Lines
- SWE 0052 Build a Release Plan
- SWE 0053 End User Agreement
- SWE 0054 Software Initial Capability Document
- SWE 0055 Kanban Board
- SWE 0062 Architecture Approaches for Agile Programs
- SWE 0063 Software Factory
- SWE 0064 DoD Software Factory Strategy
- SWE 0070 Flow Metrics
- SWE 0072 Continuous Integration
- SWE 0074 Strangler Pattern
- SWE 0075 Successful Software Transformation Example
- SWE 0077 Software Build Automation Tools
- SWE 0078 Software Test Tools
- SWE 0079 Software Security Test Tools
- SWE 0084 Software Operations Tools
- SWE 0085 Software Configuration Management Tool Selection
- SWE 0093 Software Configuration Management 101
- SWE 0096 Cloud and DevSecOps Guidance
- SWE 0097 What is Speed of Relevance for the DoD
- SWE 0098 Benefits of Agile for DoD Acquisition
- SWE 0099 Setting up an Agile Project
- SWE 0100 Relative Effort Estimation for Agile Projects
- SWE 0101 Software Version Control
- SWE 0102 Introduction to Cloud Services
- SWE 0103 What is a Service Mesh
- SWE 0104 Software Configuration Management Release
- SWE 2002 What is a Software Development Plan
- SWE 2003 Scaled Agile
- SWE 2006 What is eXtreme Programming (XP)
- SWE 2014 Configuration as Code (CaC)
- SWE 2015 Security as Code (SaC)
- SWE 2016 Infrastructure as Code (IaC)
- SWE 2017 Secure Coding
- SWE 2025 Value Stream Mapping
- SWE 2030 What is Agile
- SWE 2031 What Agile Means for the Defense Acq. Workforce
- SWE 2040 Application of Agile
- SWE 2046 What is a Container
- SWE 2047 DevSecOps Terminology
- SWE 2048 GitOps
- SWE 2049 Program-Level Data Strategies
- SWE 2050 Intellectual Property & Data Rights
- SWE 2060 What is a Microservice



# Available Learning Assets for T&E Credentials in Development

a/o August 28, 2024

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## CTST 001: Applying Scientific Test and Analysis Techniques

### DAU

- CLE 035 Introduction to Probability and Statistics

### 3<sup>rd</sup> Party

- HOS 0055 Experimental Design Basics
- HOS 0056 Factorial & Fractional Factorial Design

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## CTST 002: Cyber Test and Evaluation Fundamentals

### DAU

- CLE 074 Cybersecurity Throughout DoD Acquisition
- CYB 5640 Cyber Training Range
- CYB 0030 Introduction to Cyber Attack Kill Chain

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## CTST 003: Cyber Test and Evaluation Intermediate

### DAU

- CYB 5630V Cyber Table Top