

## CERTIFICATION STANDARDS & CORE PLUS DEVELOPMENT GUIDE ENGINEERING LEVEL I

Type of Assignment	Representative Activities
Functional Engineer	<ul style="list-style-type: none"> <li>● Plans, organizes, and conducts engineering activities relating to the design, development, fabrication, installation, modification, sustainment, and/or analysis of systems or systems components for a functional specialty (i.e., reliability and maintainability, systems safety, materials, avionics, structures, propulsion, chemical/biological, human systems interfaces, weapons, Computer Engineer/Scientist, etc.).</li> <li>● Demonstrates how systems engineering technical processes and technical management processes guide engineering activities for a functional specialty.</li> </ul>
General Engineer	<ul style="list-style-type: none"> <li>● Plans, organizes, and conducts engineering design, development, and sustainment activities for systems or systems components.</li> <li>● Demonstrates how systems engineering technical processes and technical management processes guide design, development, and sustainment activities.</li> </ul>
Research Engineer or Scientist	<ul style="list-style-type: none"> <li>● Plans, organizes, and conducts science and technology research and engineering activities supporting acquisition programs, projects, or activities.</li> <li>● Demonstrates how systems engineering technical processes and technical management processes guide science and technology research and engineering activities.</li> </ul>
Technical Support (Applicable to Level 1 Only)	<ul style="list-style-type: none"> <li>● Plans, organizes and conducts technical activities relating to the design, development, research, fabrication, installation, modification, sustainment, inspection, production, application, standardization, testing and/or analysis of systems or systems components for a technical specialty.</li> <li>● Demonstrates how systems engineering technical processes and technical support processes guide design, development and sustainment activities.</li> </ul>

### Core Certification Standards (required for DAWIA certification)

Acquisition Training	<b>ACQ 101</b> Fundamentals of Systems Acquisition Management
Functional Training	<ul style="list-style-type: none"> <li>● <b>SYS 101</b> Fundamentals of Systems Planning, Research, Development, and Engineering</li> <li>● <b>CLE 001</b> Value Engineering</li> <li>● <b>CLE 004</b> Introduction to Lean Enterprise Concepts</li> <li>● <b>CLM 017</b> Risk Management</li> </ul>
Education	<ul style="list-style-type: none"> <li>● Baccalaureate or graduate degree in a technical or scientific field such as engineering, physics, chemistry, biology, mathematics, operations research, engineering management, or computer science</li> <li>● Note: Civilians serving as an 0802 or 0856 must meet the OPM education requirements in lieu of this education standard.</li> <li>● Note: Civilians serving in an 08XX Professional Engineering series position must meet the OPM education requirements in lieu of this education standard.</li> </ul>
Experience	<ul style="list-style-type: none"> <li>● 1 year of technical experience in an acquisition position from among the following career fields/paths: ENG, S&amp;TM, IT, T&amp;E, PQM, FE, PM, or LCL</li> <li>● Similar experience gained from other government positions or industry is acceptable as long as it meets the above standards</li> </ul>

Core Plus Development Guide (desired training, education, and experience)	Type of Assignment			
Training	Func Eng	Gen Eng	Res Eng/Sci	Tech Supt
<b>BCF 106</b> Fundamentals of Cost Analysis	✓	✓		
<b>BCF 107</b> Applied Cost Analysis (R)	✓	✓		

<b><u>CLB 009</u></b> Planning, Programming, Budgeting, and Execution and Budget Exhibits	✓	✓	✓	✓
<b><u>CLB 024</u></b> Cost Risk Analysis Introduction	✓	✓	✓	
<b><u>CLB 026</u></b> Forecasting Techniques	✓	✓	✓	
<b><u>CLB 029</u></b> Rates		✓		
<b><u>CLC 008</u></b> Indirect Costs	✓	✓	✓	
<b><u>CLC 011</u></b> Contracting for the Rest of Us	✓	✓	✓	✓
<b><u>CLC 056</u></b> Analyzing Contract Costs	✓	✓		
<b><u>CLC 060</u></b> Time and Materials Contracts	✓	✓	✓	
<b><u>CLE 009</u></b> ESOH in Systems Engineering	✓	✓		✓
<b><u>CLE 011</u></b> Modeling and Simulation for Systems Engineering	✓	✓	✓	
<b><u>CLE 015</u></b> Continuous Process Improvement Familiarization	✓	✓	✓	✓
<b><u>CLE 021</u></b> Technology Readiness Assessments	✓	✓	✓	✓
<b><u>CLE 036</u></b> Engineering Change Proposals for Engineers	✓			
<b><u>CLE 045</u></b> Introduction to DoD Science & Technology Management		✓	✓	✓
<b><u>CLL 011</u></b> Performance Based Life Cycle Product Support (PBL)	✓			
<b><u>CLM 013</u></b> Work-Breakdown Structure	✓	✓	✓	✓
<b><u>CLM 021</u></b> Introduction to Reducing Total Ownership Costs (R-TOC)	✓	✓	✓	
<b><u>CLV 016</u></b> Introduction to Earned Value Management	✓			✓
<b><u>EVM 101</u></b> Fundamentals of Earned Value Management	✓	✓	✓	
<b><u>IRM 101</u></b> Basic Information Systems Acquisition	✓			✓
<b><u>LOG 101</u></b> Acquisition Logistics Fundamentals	✓	✓		✓
<b><u>LOG 102</u></b> Fundamentals of System Sustainment Management'	✓	✓		✓
<b><u>PQM 101</u></b> Production, Quality, and Manufacturing Fundamentals	✓	✓		
<b><u>TST 102</u></b> Fundamentals of Test and Evaluation	✓	✓	✓	✓
<b>Education</b>				
None specified				
<b>Experience</b>				
One (1) year of technical experience (in addition to core certification experience)				

**Notes:**

- 1** The Core Certification Standards section lists the training, education, and experience REQUIRED for certification at this level.
- 2** "(R)" following a course title indicates the course is delivered as resident based instruction.
- 3** When preparing your IDP, you and your supervisor should consider the training, education, and experience listed in this Core Plus Development Guide if not already completed.