CERTIFICATION STANDARDS & CORE PLUS DEVELOPMENT GUIDE
SPRDE – SYSTEMS ENGINEERING LEVEL I

Type of Assignment	Representative Activities
Functional Specialist	● 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.). ● Demonstrates how systems engineering technical processes and technical management processes guide engineering activities for a functional specialty.
Software Engineer	● Plans, organizes, and conducts engineering activities relating to the design, development, and/or analysis of software and information technology systems or systems components. ● Demonstrates how systems engineering technical processes and technical management processes guide software development and/or IT integration activities.
Development/Sustainment Engineer	● Plans, organizes, and conducts engineering design, development, and sustainment activities for systems or systems components. ● Demonstrates how systems engineering technical processes and technical management processes guide design, development, and sustainment activities.
Science and Technology (Research Eng or Scientist)	● Plans, organizes, and conducts science and technology research and engineering activities supporting acquisition programs, projects, or activities. ● Demonstrates how systems engineering technical processes and technical management processes guide science and technology research and engineering activities.
Technical Support	● 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. ● Demonstrates how systems engineering technical processes and technical support processes guide design, development and sustainment activities.

Core Certification Standards (required for DAWIA certification)	
Acquisition Training	**ACQ 101** Fundamentals of Systems Acquisition Management
Functional Training	● **SYS 101** Fundamentals of Systems Planning, Research, Development, and Engineering ● ● Effective 1 October 2012: ● **SYS 101** Fundamentals of Systems Planning, Research, Development, and Engineering ● **CLM 017** Risk Management
Education	● Baccalaureate or graduate degree in a technical or scientific field such as engineering, physics, chemistry, biology, mathematics, operations research, engineering management, or computer science ● Note: Civilians serving as an 0802 or 0856 must meet the OPM education requirements in lieu of this education standard.
Experience	● 1 year of technical experience in an acquisition position from among the following career fields/paths: SPRDE-SE, SPRDE-S&TM, IT, T&E, PQM, FE, PM, or LCL ● Similar experience gained from other government positions or industry is acceptable as long as it meets the above standards

Core Plus Development Guide (desired training, education, and experience)	Type of Assignment				
Training	**Func Spc**	**Soft Eng**	**Dev/Sus Eng**	**S&T (Res Eng/Sci)**	**Tech Supt**
BCF 106 Fundamentals of Cost Analysis	✔	✔	✔		
BCF 107 Applied Cost Analysis **(R)**	✔	✔	✔		
CLB 016 Introduction to Earned Value Management	✔	✔			
CLC 011 Contracting for the Rest of Us	✔	✔	✔	✔	✔
CLE 001 Value Engineering	✔		✔		✔
CLE 004 Introduction to Lean Enterprise Concepts	✔	✔	✔	✔	✔
CLE 009 ESOH in Systems Engineering	✔		✔		✔
CLE 011 Modeling and Simulation for Systems Engineering	✔	✔	✔	✔	
CLE 015 Continuous Process Improvement Familiarization	✔	✔	✔	✔	✔
CLE 021 Technology Readiness Assessments	✔	✔	✔	✔	
CLE 036 Engineering Change Proposals for Engineers	✔	✔	✔	✔	✔
CLE 045 Introduction to DoD Science & Technology Management			✔	✔	
CLE 301 Reliability and Maintainability	✔	✔	✔	✔	
CLL 011 Performance Based Life Cycle Product Support (PBL)	✔				✔
CLM 013 Work-Breakdown Structure	✔	✔	✔	✔	
CLM 016 Cost Estimating	✔	✔	✔	✔	
CLM 017 Risk Management	✔	✔	✔	✔	
IRM 101 Basic Information Systems Acquisition	✔	✔			
LOG 101 Acquisition Logistics Fundamentals	✔		✔		✔
LOG 102 Fundamentals of System Sustainment Management'	✔		✔		✔
PQM 101 Production, Quality, and Manufacturing Fundamentals	✔		✔		✔
TST 101 Introduction to Acquisition Workforce Test and Evaluation					✔
TST 102 Fundamentals of Test and Evaluation	✔	✔	✔	✔	✔
Education					
None specified					
Experience					
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.