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**DSMC - Defense Systems Management College**  
Fort Belvoir, Virginia  
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## Systems Planning, Research, Development, and Engineering— Science and Technology Manager Career Track



*Technology Transition  
to Enable  
Military Superiority*

## Science and Technology Manager Certification Standards

Education Requirement: Baccalaureate degree in engineering, physics, chemistry, biology, mathematics, or a related field

### LEVEL I CERTIFICATION

**ACQ 101** (Self-paced, online)  
Fundamentals of Systems Acquisition Management

**SYS 101** (Self-paced, online)  
Fundamentals of Systems Planning,  
Research, Development, and Engineering

**CLE 045** (3-hour continuous learning module)  
Introduction to DoD S&T Management,  
Research, Development, and Engineering

### LEVEL II CERTIFICATION

**ACQ 201A** (Self-paced, online)  
Intermediate Systems Acquisition, Part A

**STM 202** (3 days classroom)  
Intermediate S&T Management

**CLE 021** (3-hour continuous learning module)  
Technology Readiness Assessments

### LEVEL III CERTIFICATION

**STM 303** (4 days classroom)  
Advanced S&T Management

**CLM 014** (3-hour continuous learning module)  
IPT Management and Leadership

Science and Technology Management  
Community of Practice  
<https://acc.dau.mil/stm>



An additional resource to the STM Career Field, the Science and Technology Management Community of Practice allows technology management professionals to share knowledge, research effective technology management practices, and access learning assets.

## ACQ 101

### Fundamentals of Systems Acquisition Management

- Provides a broad overview of the DoD systems acquisition process.
- Introduces the Joint Capabilities Integration and Development Systems; the planning, programming, budgeting, and execution process; and DoD 5000-series policy documents.
- Designed for individuals who have minimal experience in DoD acquisition management.

## SYS 101

### Fundamentals of Systems Planning, Research, Development, and Engineering

- A technically rigorous, comprehensive introduction to systems engineering and the various technical management processes involved in its application.
- Based on the systems engineering processes outlined in the Defense Acquisition Guidebook.
- Provides the essential foundations needed for systems planning, research, development, and engineering careerists and others—such as science and technology manager personnel.

## CLE 045

### Introduction to DoD Science and Technology Management (S&T)

- Provides an understanding of the processes for DoD S&T development and review.
- Explains the Service processes and DoD technology initiatives and the concepts of technology maturity, including the use of technology readiness levels, critical technology elements, and technology readiness assessments.

## CLE 068

### Intellectual Property

- Provides an understanding of the types of intellectual property protection.
- Provides guidance on the service process to obtain and use the technical data required for government use.

## ACQ 201A

### Intermediate Systems Acquisition, Part A

- Uses computer-based training to prepare mid-level acquisition professionals to work in integrated product teams by providing an overview of systems acquisition principles and processes.

## STM 202

### Intermediate Science and Technology Management

- Provides an understanding of the procedures and mechanisms used to transition advanced technologies into warfighting systems.
- Personnel associated with science and technology project management will be able to understand the challenges presented in successfully transitioning technology into the weapons systems acquisition process or directly to the warfighter, assess the implications of various technology transition mechanisms, and apply effective technology transition practices.

## CLE 021

### Technology Readiness Assessments

- Presents the assessment process as it relates to defense acquisition.
- Enables professionals to identify critical technology elements, assign technology readiness levels, prepare technology maturation plans, and prepare technology readiness assessment reports within the context of the technology readiness assessment process.

## STM 303

### Advanced Science and Technology Management

- Provides professionals with an understanding of the procedures and mechanisms used to transition emerging technologies into warfighting systems.
- Attendees will be able to apply the critical skills of systems engineering, test and evaluation, and budgeting processes for technology project management.
- Attendees will learn how to analyze and apply effective technology transition practices from basic research to acquisition or deployment.

## CLM 014

### IPT Management and Leadership

- Introduces management and leadership concepts used to organize, manage, and lead an integrated product team.
- Integrated product teams are used throughout the acquisition process to open the cross-functional and cross-organizational lines of communication and are formed for the specific purpose of delivering a product for a customer.



*"No changes to the acquisition system itself can substitute for good sense, good discipline, alignment of what we buy with what our strategy requires and, above all, good people performing the acquisition function."*

Ashton B. Carter  
Under Secretary of Defense  
for Acquisition, Technology & Logistics

## PLAN YOUR TRAINING WITH CORE PLUS

Core Plus represents an enhanced career field certification and development framework that is best illustrated as three concentric circles.



The **inner ring**, Core Acquisition Certification, represents the broad range of competencies that are common across the Defense Acquisition Workforce.

The **middle ring**, Core Functional Certification, represents those specialized competencies that relate to an acquisition function (i.e., career field) such as contracting, program management, test and evaluation, or any one of the 12 acquisition career fields.

Finally, the **outer ring**, Core Plus, represents those acquisition or functional competencies that target tasks directly related to specific types of job assignments in a particular acquisition career field.

For each career field/path, the combination of the inner and middle rings for each level (I, II, and III) will represent the minimum career field certification standards associated with the position requirements.