

# Defense Industrial Base (DIB) Sector Coordinating Council (SCC) Supply Chain Cyber Training

Cyber/Cybersecurity Maturity Model Certification (CMMC) v2.0

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# Agenda

- ▶ Module 1: Cybersecurity: Why it is Important?
- ▶ Module 2: Cybersecurity Maturity Model Certification
- ▶ Module 3: Assessment Process - Interim
- ▶ Module 4: Incident Reporting
- ▶ Module 5: Cybersecurity Best Practices
- ▶ Module 6: Risk Management
- ▶ Resource Guide: Glossary, Acronym Guide and Resources for Additional Information
- ▶ **CMMC Domains**
- ▶ Survey

# CMMC Domains

Reference Material

# Disclaimer and Overview

**Note: CMMC is still going through the rule-making process and certain aspects and requirements may change. Refer to the *Resources Guide* provided in this training for the most updated information.**

- ▶ The intent of this training is to build awareness for Defense Industrial Base (DIB) suppliers of the likely requirements of the Cybersecurity Maturity Model Certification (CMMC) and their obligation to meet FAR 52.204-21 (basic cyber hygiene) and DFARS 252.204-7012 (specialized data handling and protection requirements).
- ▶ This training is self-paced and intended for a range of roles and responsibilities including, but not limited to, executives, project managers and technical staff from organizations seeking certification (OSC) and need to comply with CMMC. Currently, CMMC does not apply to any contractor.
- ▶ Note: Completion of this training DOES NOT certify your organization. This training is intended for the purposes of providing awareness of the subjects outlined above.
- ▶ The DIB Sector Coordinating Council (SCC) Supply Chain Task Force does not take responsibility for suppliers' certification by the CMMC 3rd Party Assessment Organization (C3PAO).
- ▶ This training focuses on U.S. regulations and industry best practices:
  - ▶ U.S. Department of Defense (DoD) Chief Information Officer (CIO) Cybersecurity Maturity Model Certification (CMMC) Information
  - ▶ National Institute of Standards & Technologies (NIST) publications
  - ▶ National Archives & Records Administration (NARA) definitions
  - ▶ DIB SCC Supply Chain Task Force - CyberAssist website

# CMMC Domains

- ▶ The CMMC model consists of 14 domains that align with the families specified in NIST SP 800-171.\*
- ▶ When you click on one of the domains in the “CMMC Domains (14)” chart, you will be directed to the listing of all practices for that domain. From there, you can narrow it down by level.

## CMMC Domains (14)



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# Access Control (AC)

Access control is the process of granting or denying requests to use information, to use information processing services and/or enter company facilities. System-based access controls are called logical access controls, who or what (in the case of a process) is permitted to have access to a system resource and type of access permitted.\*

- Do you securely log into your company systems?
- Does your company limit system access to types of transactions and functions?
- Does your company restrict access to company facilities?
- What is sensitive information?
- Do you know how to handle and protect sensitive information?

# Audit and Accountability (AU)

Companies should create, protect, and retain system audit records to the extent needed to enable the monitoring, analysis, investigation, and reporting of unlawful, unauthorized, or inappropriate system activity and ensure that the actions of users can be uniquely traced to those users so they can be held accountable.\*

- Are users uniquely identified in your systems?
- Do you perform any type of event reviews?
- Do you have any alerts setup when a failure occurs?

# Awareness and Training (AT)

The purpose of information security awareness, training, and education is to enhance security by raising awareness of the need to protect system resources, developing skills and knowledge so system users can perform their jobs more securely, and building in-depth knowledge as needed to design, implement, or operate security programs for organizations and systems.\*

- Do you have any training on job duties or protection of information?
- Is the training recurring?



# Configuration Management (CM)

Configuration management is a collection of activities focused on establishing and maintaining the integrity of information technology products and systems through the control of processes for initializing, changing, and monitoring the configurations of those products and systems throughout the System Development Life Cycle (SDLC).\*

- Do you have any baseline configurations (software, hardware, etc.)?
- Do you setup any specific security settings?
- Do you review changes to your systems before they occur?
- Do you limit what software can be installed and run on your systems?

# Identification and Authentication (IA)

Identification and authentication is a technical measure that prevents unauthorized individuals or processes from entering a system. Identification and authentication is a critical building block of information security since it is the basis for most types of access control and for establishing user accountability.\*

- How do users log into your systems?
- Does everyone have full administrative rights on all systems?
- Do you use any type of multifactor authentication (MFA)?
- Do you have any password requirements setup?
- Do you have a process for removing user accounts when an individual leaves the company?

# Incident Response (IR)

Companies should establish an operational incident handling capability for company systems that includes adequate preparation, detection, analysis, containment, recovery, and user response activities and track, document, and report incidents to company management and/or authorities.\*

- Do you have any processes for responding to any type of event that affects your business?
- Do you test this process?

# Maintenance (MA)

Companies should perform periodic and timely maintenance on company systems and provide effective controls on the tools, techniques, mechanisms, and personnel used to conduct system maintenance.\*

- Do you patch your systems regularly?
- Do you sanitize systems before sending for repair?
- Do you monitor repair personnel?

# Media Protection (MP)

Media protection is a requirement that addresses the defense of system media, which can be described as both digital and nondigital. Media protections can restrict access and make media available to authorized personnel only, apply security labels to sensitive information, and provide instructions on how to remove information from media so that the information cannot be retrieved or reconstructed.\*

- Do you sanitize systems before sending for disposal?
- Do you protect backups at off-site facilities?
- Do you protect your systems from removable media especially when coming from an unknown source?

# Personnel Security (PS)

Personnel security seeks to minimize the risk that staff (permanent, temporary, or contractor) pose to company assets through the malicious use or exploitation of their legitimate access to the company's resources. Companies should be vigilant when recruiting and hiring new employees, as well as when an employee transfers or is terminated.\*

- Do you perform background checks on employees?
- Do you remove/disable access when an employee leaves the company?

# Physical Protection (PE)

The term physical (and environmental) security refers to measures taken to protect systems, buildings, and related supporting infrastructure against threats associated with their physical environment.\*

- Do you track and monitor visitors?
- Is physical access to systems limited?
- Do you take security measures when working offsite?

# Risk Assessment (RA)

Risk assessments identify and prioritize risks to company operations, assets, employees, and other organizations that may result from the operation of a system. Companies should periodically assess the risk to operations (e.g., mission, functions, image, and reputation), assets, and employees, which may result from the operation of company systems and the associated processing, storage, or transmission of company information.\*

- Do you assess risk to your company and systems?
- Do you scan for and remediate systems vulnerabilities?
- Do you perform backups of systems?



# Security Assessment (CA)

A security requirement assessment is the testing and/or evaluation of the management, operational, and technical security requirements on a system to determine the extent to which the requirements are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the system.\*

- Do you periodically assess your security controls?
- Do you resolve any deficiencies found in security controls?
- Do you document how your systems are protected and interconnected?

# System and Communications Protection (SC)

System and communications protection requirements provide an array of safeguards for the system, including the confidentiality information at rest and in transit. System and communications protection also establishes boundaries that restrict access to publicly accessible information within a system. Using boundary protections, a company can monitor and control communications at external boundaries as well as key internal boundaries within the system.\*

- Do you have firewalls and other segregation on your network?
- Do you segregate public-facing systems from internal only systems?
- Do you use encryption when transmitting over the Internet?
- Do you limit the ability to connect to systems from outside the company?

# System and Information Integrity (SI)

System and information integrity provides assurance that the information being accessed has not been meddled with or damaged by an error in the system.\*

- Do you use Anti-malware/Anti-virus software and keep it updated?
- Do you monitor for system vulnerabilities and/or malicious attacks?