

CMMC Certification Training



Virtual



Public



Private

Cybersecurity Maturity Model Certification

Program Guide



Table of Contents

DoD's CMMC 2.0	2
CMMC Timeline	5
Organizations Seeking Certification (OSC).....	5
CCP Program.....	6
CCA Program.....	7
CMMC Fast Facts	8
CMMC Academy	9
CMMC L1 Portal	10
CMMC L2 Portal	10

DoD's - CMMC 2.0



Ali Pabrai
 Chief Executive
 Global Cyber Defense
 Thought Leader

Cybersecurity is only as good as an organization's weakest link. Increasingly, the weakest link is the cyber supply chain. Third-party vendors and business associates such as CSPs or technology firms have long struggled to establish a credible cyber defense to protect sensitive and confidential information they process for their clients.

To aid with this and to ensure cyber resilience in its supply chain, the U.S. DoD introduced the CMMC framework in 2020. The latest version of this standard is CMMC.

The CMMC framework is of relevance not only to the DoD but other federal and state government agencies, and organizations that provide services to government agencies. CMMC is built on the NIST family of standards. CMMC establishes cybersecurity certification requirements, so achieving CMMC Certification brings credibility to any organization wanting to do business with the federal government. Senior executives will benefit from studying CMMC standard and considering raising the bar of their NIST-based program by achieving CMMC Certification.

The latest version of CMMC framework, CMMC, is a comprehensive framework that includes cyber protection standards that aim to protect the DIB from being damaged by APTs.

CSPs
 Cloud Service Providers

NIST
 National Institute of Standards and Technology

DIB
 Defense Industrial Base

APTs
 Advanced Persistent Threats

CMMC 2.0 framework includes several updates to CMMC 1.0 model. Both models address the following topics:

- ❖ Safeguarding sensitive information such as FCI and CUI
- ❖ Enhancing accountability while minimizing barriers to comply with DoD requirements
- ❖ Dynamically enhancing DIB cybersecurity to meet evolving threats

By incorporating CMMC standards into acquisition programs, the DoD ensures that contractors and subcontractors will meet its cybersecurity requirements.

The DIB is the target of increasingly frequent and complex cyberattacks by adversaries and non-state actors. Made up of hundreds of thousands of small, medium, and large organizations, the DIB exists globally. It is a top priority of the DoD to dynamically enhance DIB cybersecurity requirements to protect against these evolving threats and safeguard the information that supports and enables U.S. military services and operations such as the exchange of sensitive information. CMMC is a key component of the DoD's expansive DIB cybersecurity effort.

It is a top priority of the DoD to dynamically enhance DIB cybersecurity requirements to protect against evolving. Evolving threats and safeguard the information that supports and enables U.S. military services and operations such as the exchange of sensitive information.

"CMMC will dramatically strengthen the cybersecurity of the Defense Industrial Base," said Jesse Salazar, U.S. Deputy Assistant Secretary of Defense for Industrial Policy. "By establishing a more collaborative relationship with industry, these updates will support businesses in adopting the practices they need to thwart cyberthreats while minimizing barriers to compliance with DoD requirements."

The changes reflected in CMMC will be implemented through CMMC rulemaking process. Enterprises will be required to comply once the forthcoming rules go into effect. The DoD intends to pursue rulemaking in both Part 32 of the CFR and the DFARS in Part 48 of the CFR.

FCI
Federal Contract Information

CUI
Controlled Unclassified Information

DoD
Department of Defense

CFR
Code of Federal Regulations

DFARS
Defense Federal Acquisition Regulation Supplement

The DoD is exploring opportunities to provide incentives for contractors who voluntarily obtain a CMMC Certification in the interim period.

FCI and CUI Are a CMMC Priority

FCI is defined as information not intended for public release; that is, information that is provided by or generated for the government under a contract to develop or deliver a product or service to the government, but not provided by the government to the public (such as that which exists on public websites). Simple transactional information such as that necessary to process payments is also defined as FCI.

CUI is information the government creates or possesses, or that an entity creates or possesses for or on behalf of the government, that a law, regulation or government-wide policy requires or permits an agency to handle using safeguarding or dissemination controls.

The DoD's intent under CMMC is that if a DIB enterprise does not process, store or transmit CUI on its unclassified network, but does process, store or handle FCI, then it must perform a CMMC Level 1 Self-Assessment and submit the results with an annual affirmation by a senior enterprise official.

The CMMC model is designed to protect FCI and CUI that are shared with contractors and subcontractors of the DoD to support contract acquisition and performance.

CMMC only applies to DIB contractors' unclassified networks that process, store or transmit FCI or CUI.

The Structure of CMMC

CMMC is aligned with U.S. NIST standards, specifically NIST SP 800-171 Rev 2, Protecting CUI in Nonfederal Systems and Organizations, and NIST SP 800-172, Enhanced Security Requirements for Protecting CUI. The DoD's requirements will continue to evolve as changes are made to the underlying NIST SP 800-171 and NIST SP 800-172 requirements.

SP
Special Publication

CMMC standard is organized into 3 specific levels:

- 1. Level 1 Foundational** - Represents the entry level for CMMC 2.0 framework and includes 17 practices.
- 2. Level 2 Advanced** - Includes 110 practices aligned with NIST SP 800-171 Rev 2. Level 2 may include:
 - ❖ CUI (non-prioritized acquisitions)
 - ❖ CUI (prioritized acquisitions)

3. Level 3 Expert - Includes more than 110 practices based on NIST SP 800-172 and is the highest level.

Level 1 applies to organizations that process FCI but not CUI. Level 2 organizations process both FCI and CUI and require the implementation of additional cybersecurity capabilities. In addition, Level 2 organizations must meet all security requirements specified in NIST SP 800-171 Rev 2.

CMMC Assessment and Certification

DIB organizations are fully responsible for obtaining the necessary CMMC Certification, including coordinating and planning their participation in CMMC assessment.

Level 1 and a subset of organizations at Level 2 can demonstrate compliance with CMMC requirements through Self-Assessments. Self-Assessments associated with Level 1 and a subset of Level 2 programs (e.g., CUI, nonprioritized acquisitions) will be required on an annual basis.

Third-party and government-led assessments, associated with some Level 2 (e.g., CUI, prioritized acquisitions) and all Level 3 programs, will be required on a triennial basis. The assessment requirements will be applicable to the impacted organizations and their associated contractors.

Once CMMC is fully implemented, the DoD will only accept CMMC assessments that are provided by an authorized and accredited C3PAO and conducted by certified CMMC Assessors. Under certain circumstances, the DoD allows enterprises to make POA&Ms to earn their CMMC Certifications.

After completion of CMMC assessment, the C3PAO will provide an assessment report to the DoD. As part of the CMMC implementation, the DoD will approve all CMMC AB conflict-of-interest-related policies that apply to CMMC ecosystem.

Conclusion

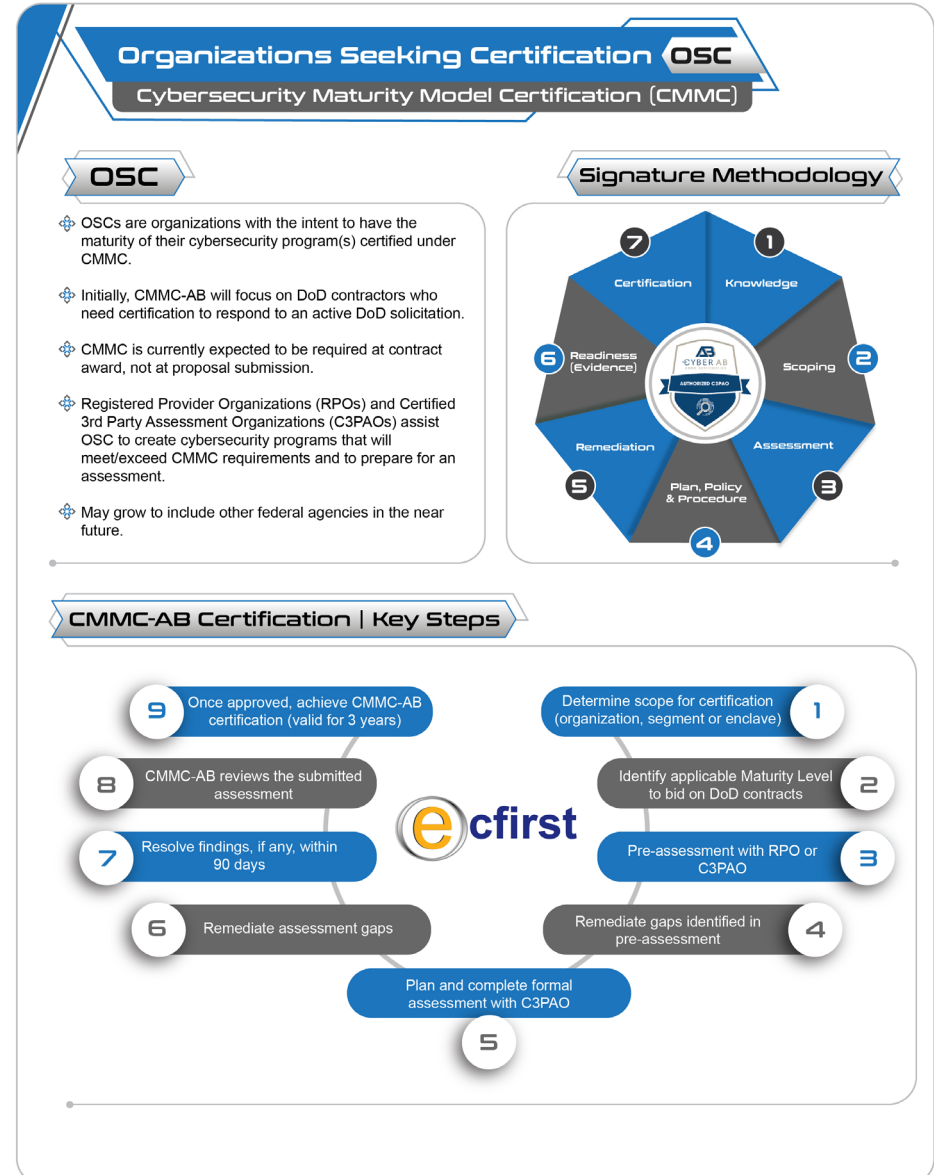
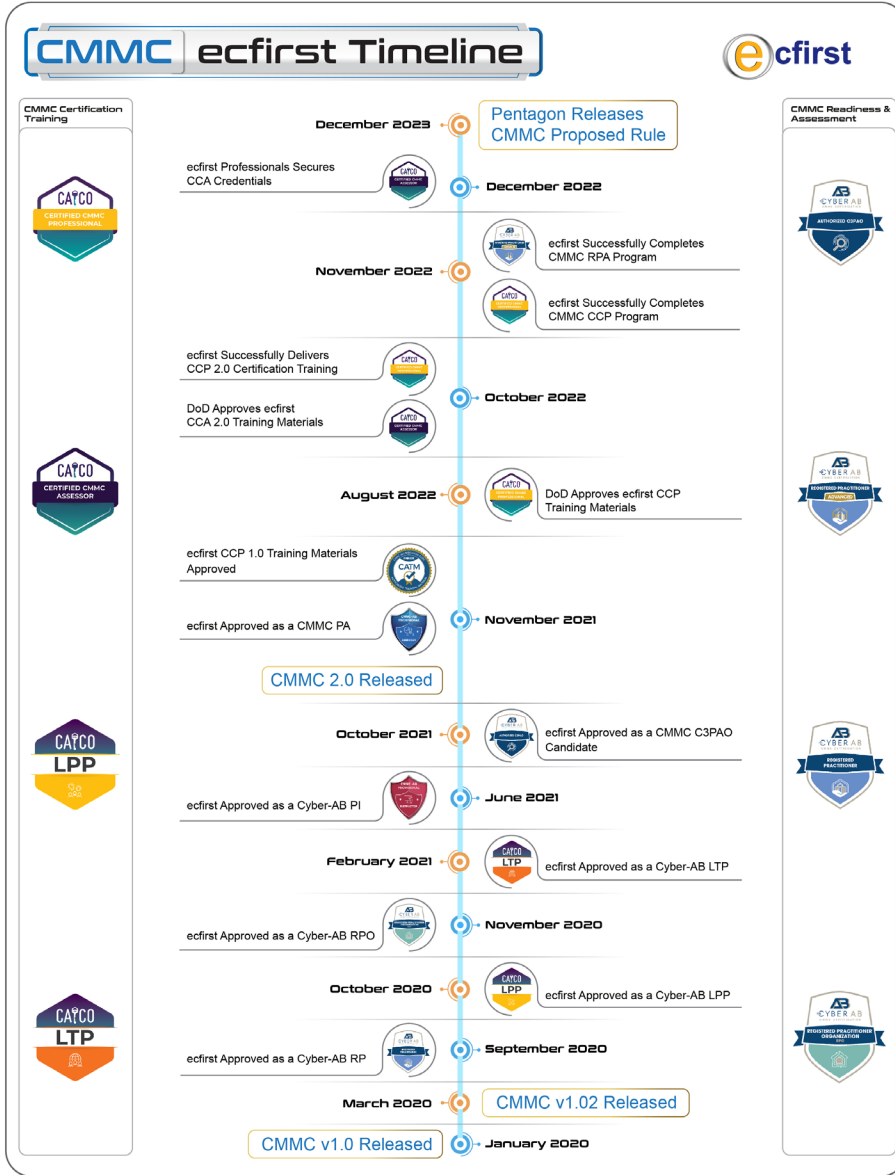
CMMC is organized into 3 levels. Level 2 (advanced) will be equivalent to NIST SP 800-171. Level 3 (expert) will be based on a subset of NIST SP 800-172 requirements.

C3PAO
CMMC
Third-Party
Assessor
Organization

POA&Ms
Plans of
Action and
Milestones

Cybersecurity professionals and senior executives across industries should take note of CMMC framework. This is the cybersecurity standard for this decade and beyond. Organizations across industries can leverage CMMC requirements to improve their cyberdefense posture and establish a more credible, evidence-based security program.

The future demands active cyber defense. The threats faced by enterprises will require leaders to rethink and reimagine cybersecurity. Forward-thinking organizations should target CMMC Certification at the appropriate level based on the risk to their businesses and associated assets.



CMMC CCP

Public | Virtual | Private



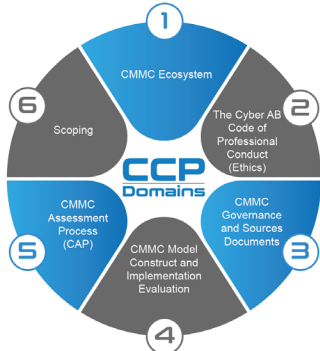
Summary

This Certified CMMC Professional (CCP) exam will verify a candidate's knowledge of the Cybersecurity Maturity Model Certification (CMMC), relevant supporting materials, and applicable legal and regulatory requirements to protect Federal Contract Information (FCI) and Controlled Unclassified Information (CUI). This CCP exam will also assess the candidate's understanding of the CMMC ecosystem. A passing score on this exam is a prerequisite to Certified CMMC Assessor (CCA) and Certified CMMC Instructor certifications.

Why ecfirst for CCP Training?

- Our auditors are our trainers!
- ecfirst is all in, for CMMC (RPO, LPP, LTP pending C3PAO).
- ecfirst Academy portal, gives students access to all training materials, resource documents, study guides and quizzes to solidify your learning, in one location.
- 25 years of privacy and security compliance training experience.
- 24 years of compliance audit/assessment experience (HIPAA, PCI DSS, HITRUST, GDPR, NIST SP 800-171, multiple state regulations).
- One of the first organizations to take the training to market!
- We are overly excited about CMMC!

Certified CMMC Professional (CCP)



Intended Audience

- Employees of Organizations Seeking CMMC Certification (OSC)
 - IT and Cybersecurity Professionals
 - Regulatory Compliance Officers
 - Legal and Contract Compliance Professionals
 - Management Professionals
- Cybersecurity and Technology Consultants
- Federal Employees
- CMMC Assessment Team Members

Exam Prerequisites

- College degree in a cyber or information technical field or 2+ years of related experience or education, or 2+ years of equivalent experience (including military) in a cyber, information technology, or assessment field.
- Suggested CompTIA A+ or equivalent knowledge/experience.
- Complete CCP Class offered by a Licensed Training Provider (LTP).
- Pass DoD CUI Awareness Training no earlier than three (3) months prior to the exam.
- [A https://securityhub.usalearning.gov/index.html](https://securityhub.usalearning.gov/index.html)

CCP Exam Specifications

- Number of Questions: 170
- Types of Questions: Multiple Choice
- Length: 3.5 Hours
- Passing Score: 500 points
- This is not an open book exam

Domain Exam Weight

#	Domain	Exam Weight	CCP Program	Hours
1	CCP Pre Program Prep			2
2	CMMC Ecosystem	15%		10
3	Cyber-AB Code of Professional Conduct (Ethics)	15%	Domain 1, 2 & 3 Tuesday, Day 1 8:30 am - 12:00 pm Office Prep: 2 Hours	10
4	CMMC Governance and Sources Documents	15%		10
5	CMMC Model Construct and Implementation Evaluation	15%	Domain 4 Wednesday, Day 2 8:30 am - 12:00 pm Office Prep: 2 Hours	10
6	CMMC Assessment Process (CAP)	15%	Domain 5 Thursday, Day 3 8:30 am - 12:00 pm Office Prep: 2 Hours	10
7	Scoping	15%		10
8	Practice Exam & Review		Domain 6 & Review Friday, Day 4 8:30 am - 12:00 pm	3.5



CMMC CCP

Public | Virtual | Private



Domain 1

CMMC Ecosystem

- Task 1 Identify and compare roles/responsibilities/requirements of authorities across the CMMC Ecosystem.

Domain 2

The Cyber AB Code of Professional Conduct (Ethics)

- Task 1 Identify and apply your knowledge of the Guiding Principles and Practices of the The Cyber AB Code of Professional Conduct (CoPC)/ISO/IEC/DOD requirements.

Domain 3

CMMC Governance and Sources Documents

- Task 1 Demonstrate your understanding of FCI and CUI in non-federal unclassified networks.
- Task 2 Determine the appropriate roles/responsibilities/authority for FCI and CUI.
- Task 3 Demonstrate your understanding of the CMMC Source and Supplementary documents.

Domain 4

CMMC Model Construct and Implementation Evaluation

- Task 1 Given a scenario, apply the appropriate CMMC Source Documents as an aid to evaluate the implementation/review of CMMC practices.
- Task 2 Apply your knowledge of the CMMC Assessment Criteria and Methodology, to the appropriate CMMC practices.
- Task 3 Analyze the adequacy/sufficiency around the location/collection/quality/usage of Evidence.

The Cyber AB Source

<https://dodcio.defense.gov/CMMC/>



Domain 5

CMMC Assessment Process

- Task 1 Choose the appropriate roles of the CCP in the CMMC Assessment Process when developing the assessment plan (Phase 1- Plan and Prepare Assessment).
- Task 2 Apply CMMC Assessment Process requirements pertaining to the role of the CCP as an assessment team member while conducting a CMMC assessment (Phase 2 - Conduct Assessment).
- Task 3 Demonstrate your comprehension of the CCP role in the preparation of assessment report (Phase 3 - Report Assessment Results).
- Task 4 Demonstrate your comprehension of the CCP role in the process of evaluating outstanding assessment issues on Plan of Action and Milestones (POA&M) (Phase 4 - Evaluation of Outstanding Assessment POAM Items).
- Task 5 Given a scenario, determine the appropriate phases/steps to assist in the preparation/conducting/reporting on a CMMC Level 2 Assessment.

Domain 6

Scoping

- Task 1 Understand CMMC High-Level Scoping as described in the CMMC Assessment Process.
- Task 2 Given a Scenario, analyze the organization environment to generate an appropriate scope for FCI Assets.



CMMC CCA

Public | Virtual | Private



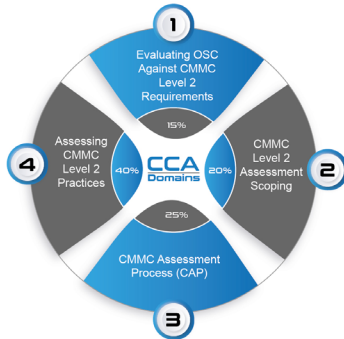
Summary

This Certified CMMC Assessor (CCA) exam will verify a candidate's readiness to perform as an effective Certified Assessor of Organizations Seeking Certification (OSC) at CMMC Level 2. A passing score on this CCA exam is a prerequisite to a CMMC Lead Assessor designation.

Why ecfirst for CCA Training?

- Our auditors are our trainers!
- ecfirst is all in, for CMMC (RPO, LPP, LTP pending C3PAO).
- ecfirst Academy portal, gives students access to all training materials, resource documents, study guides and quizzes to solidify your learning, in one location.
- 25 years of privacy and security compliance training experience.
- 24 years of compliance audit/assessment experience (HIPAA, PCI DSS, HITRUST, GDPR, NIST SP 800-171, multiple state regulations).
- One of the first organizations to take the training to market!
- We are overly excited about CMMC!

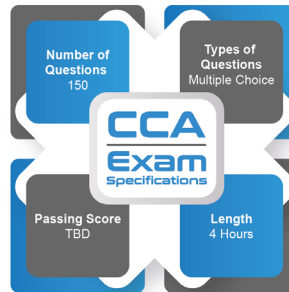
Certified CMMC Assessor (CCA)



Intended Audience

- CCP seeking to advance to Certified CMMC Assessor
- Certified CMMC Instructors who wish to teach the CCA course

CCA Exam Specifications



Domain Exam Weight

#	Domain	Exam Weight	CCA Program	2024 Hours
1	CCA Pre Program Prep			2 Hours
2	Welcome Introductions, About the Portal and Pre-Quiz			
2	Introduction		Domain 0, 1, 2 Tuesday, Day 1	10 Hours
2	Evaluating OSC Against CMMC Level 2 Requirements	15%	8:30 am - 4:30 pm Group Exercises: 8 140 Minutes Offline Prep: 2 Hours	10 Hours
3	CMMC Level 2 Assessment Scoping	20%		
3	CMMC Assessment Process (CAP)	25%	Domain 3 Wednesday, Day 2 8:30 am - 4:30 pm Group Exercises: 7 35 Minutes Offline Prep: 2 Hours	10 Hours
4	Assessing CMMC Level 2 Practices	40%	Domain 4 Thursday, Day 3 8:30 am - 4:30 pm Group Exercises: 10 60 Minutes Offline Prep: 2 Hours	10 Hours
5	Practice Exam & Review		Review and Final Quiz Friday, Day 4 9:30 am - 12:00 pm	3.5 Hours

CMMC CCA

Public | Virtual | Private



Domain 1

Evaluating OSC Against CMMC Level 2 Requirements

Task 1 Assess the various environmental considerations of OSCs against CMMC Level 2 practices.

Domain 2

Scoping

Task 1 Analyze the CMMC Assessment Scope of Controlled Unclassified Information (CUI) Assets as they pertain to a CMMC assessment using the five categories of CUI assets as defined in the CMMC Level 2 Assessment Scoping Guide.

Task 2 Given a scenario, analyze the CMMC Assessment Scope based on the predetermined CUI categories within the CMMC Level 2 Assessment Scoping Guide.

Task 3 Evaluate CMMC assessment scope considerations based on the CMMC Level 2 Assessment Scoping Guide.

Domain 3

CAP vs.X

Task 1 Given a scenario, apply the appropriate phases and steps to plan, prepare, conduct, and report on a CMMC Level 2 Assessment.

Domain 4

CMMC Levels 2 Practices

Task 1 Identify evidence verification/validation methods and objects for Practices based on the CMMC Level 2 Assessment Guide and CAP documentation.

Acronyms

- CUI** Controlled Unclassified Information
- CAP** CMMC Assessment Process
- OSC** Organizations Seeking CMMC Certification
- CCA** Certified CMMC Assessor

The Cyber AB Source

<https://dodcio.defense.gov/CMMC/>



Casey Collins | Casey.Collins@ecfirst.com | www.ecfirst.com

The ecfirst DoD CMMC Ecosystem



An Infographic

CMMC Fast Facts

Cybersecurity Maturity Model Certification | CMMC



CMMC Highlights

- ✚ With the implementation of CMMC, the Department (DoD) is introducing several key changes that build on and refine the original program requirements.
 - Ⓛ Focused on the most critical requirements
 - Ⓛ Aligned with widely accepted standards
 - Ⓛ Reduced assessment costs
 - Ⓛ Higher accountability
 - Ⓛ Spirit of collaboration
 - Ⓛ Added flexibility and speed

CMMC Model Overview

- ✚ CMMC is the next iteration of the DoD's CMMC cybersecurity model.
- ✚ It streamlines requirements to three levels of cybersecurity.
- ✚ Aligns the requirements at each level with well-known and widely accepted NIST cybersecurity standards.

CMMC Source

<https://dodcio.defense.gov/CMMC/>

CMMC Key Features

CMMC Model	Model	Assessment
LEVEL 3	110+ Requirements based on NIST SP 800-171 & 800-172	Triennial government-led assessment & annual affirmation
LEVEL 2	110 Requirements aligned with NIST SP 800-171	Triennial third-party assessment & annual affirmation; Triennial self-assessment & annual affirmation for select programs
LEVEL 1	15 Requirements	Annual self-assessment & annual affirmation



AI Defense, Beyond Cyber

Ali Pasha
Global AI Cyber Defense Thought Leader



Public | Virtual | Private

Certified CMMC Professional



Updated for CMMC 2.0

Evaluation Form

Downloads

**** Do you have your CPN Number?

Ready for CCP Exam?

DOD Posts CMMC Video

Core

Training Book

Classroom

Additional Reference

CMMC Domains

CCP Pretest

CMMC Practices

Quiz

Assessor Toolkit

Final Practice Exam

Quick Links

CMMC Proposed Rule, December 2023

Table of Index

CMMC Infographics

Roles & Responsibilities

CMMC Source Documents

CCP Presentation Slides

NIST Reference Documents

CMMC Flashcard

CMMC Flashcard Quiz

CCP Practice Quiz

CMMC Glossary

CMMC Acronyms

Shared Responsibility


Controlled Unclassified Information (CUI)

Security Awareness Hub

Instructor, Restricted

CMCC L1 Self-Assessment Portal

Cybersecurity Maturity Model Certification (CMCC)



CMCC Dashboard

CMCC Level 1

Phase 1 Planning | Phase 2 Self-Assessment | Phase 3 Confirmation

Phase 4 Generate Report

Reference | Dashboard | Policy Template

Phase 1 Planning

CMCC Level 1

Dashboard

Intake Form: 100%	Assessment: 75%	Roles: 50%	SSP: 40%
General: 84%	Policy: 25%	Procedure: 67%	Evidence: 87%

Phase 2 Self-Assessment

CMCC Level 1


Self-Assessment

Please click on the action button to describe how each practice is implemented!

Practice ID	Practice Language	Action
Access Control, Domain 1		
AC.L1-3.1.1	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	
AC.L1-3.1.1	Limit information system access to the types of transactions and functions that authorized users are permitted to execute.	
AC.L1-3.1.1.20	Verify and control/limit connections to and use of external information systems.	


Showing 1 to 3 of 23 entries | Back | Submit your Self-Assessment | Previous 1 | 2 | 3 | Next

Sample CMCC Report



CMCC Level 2 Readiness Portal

Cybersecurity Maturity Model Certification (CMCC)



CMCC Dashboard

CMCC Level 2 Readiness Portal

ecfirst | Back

Client Phase | ecfirst | Assessor Phase

Phase 1 Planning | Phase 2 Assessor Review of Phase 1 | Phase 3 Assessment | Phase 4 Report | Phase 5 POA&M

CMCC Reference | Readiness Portal Dashboard | Policy Template

Phase 1 Planning


CMCC Level 2

ecfirst | Back

Dashboard

Intake Form: 100%	Assessment: 75%	Roles: 50%	SSP: 40%
General: 84%	Policy: 25%	Procedure: 67%	Evidence: 87%

Sample CMCC Report



Consulting Practice



Certification Training



AI Defense, Beyond Cyber

CMMC Certification Training Program Guide

Ali Pabrai



Global AI Cyber Defense Thought Leader

MISEE | CISSP (ISSAP) | ISSMP | CMMC (CCA, CCP, PA, PI, RPA, RP) | HITRUST-CCSP | Security+



Mr. Ali Pabrai, a global AI cybersecurity & compliance expert, is the chairman & chief executive of ecfirst. A highly sought after professional, he has successfully delivered solutions to U.S. government agencies, IT firms, healthcare systems, legal & other organizations worldwide. His career was launched with the U.S. Department of Energy's nuclear research facility, Fermi National Accelerator Laboratory. He has served as vice chairman and in several senior officer positions with NASDAQ-based firms.

U.S. Department of Defense CMMC Program



Mr. Pabrai has led numerous engagements worldwide for ISO 27001, PCI DSS, NIST, CMMC, GDPR, CCPA, FERPA, HITRUST CSF and HIPAA/HITECH. Mr. Pabrai served as an Interim CISO for a health system with 40+ locations.

Mr. Pabrai has presented passionate briefs to tens of thousands globally, including the USA, United Kingdom, France, Taiwan, Singapore, Canada, India, UAE, Saudi Arabia, Philippines, Japan, Ireland, Bahrain, Jordan, South Africa, Egypt, Ghana and other countries.

He is a globally renowned speaker who has been featured as a keynote as well as moderated cybersecurity conferences. Mr. Pabrai is the author of several published works. Clients that Mr. Pabrai has delivered to have included the U.S. Defense Intelligence Agency (DIA), and the U.S. Naval Surface Warfare Center.

Mr. Pabrai was appointed and served (2017) as a member of the select HITRUST CSF Assessor Council. Mr. Pabrai is a proud member of the InfraGard (FBI).

"We have had the true pleasure of working with Ali Pabrai at conferences all over the world during the past few years – with one unanimous word that keeps resounding among audiences and staff alike – **AWESOME!**"
Michael Mach | Conference Program Manager | ISACA



FBI Conference



"Pabrai's presentation style is engaging, and he encourages questions and discussions. I would recommend him for future presentations and trainings."
Josh More | Cyber Sector Chief | Iowa FBI InfraGard

"On behalf of the Idaho InfraGard (FBI), I would like to thank Pabrai for presenting at our conference. Pabrai is the kind of speaker you want to bring to executives and staff. He says it in a simple, no nonsense way, in a manner that everyone can understand."
Rachel Zahn | President | InfraGard (FBI) | Idaho Alliance

"You delivered a fantastic presentation and we all felt your passion for cyber security."
James E Lamadrid | Supervisory Special Agent | Federal Bureau of Investigation (FBI) | Cyber Task Force

"Thank you Pabrai. Your enthusiasm and relevance for the Information Security material you presented at our combined InfraGard (FBI) conference in Idaho Falls was very well received and pertinent to both our chapter as an organization and the constituents in attendance."

"As a government employee, I appreciated the simplified insight of highlighting the importance of compliance and funding compared to information security success beyond qualitative metrics. I heard many times over that your specific information with measurable results made your material directly relevant to individuals, businesses and organizations. Thanks again and I hope you are able to join us again in the future."
Clark Harshbarger | FBI

