

# CMMC Update & Tools to Assist Your Clients



by KLC Consulting, Inc.

*A DoD/Cyber AB Authorized C3PAO*

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- Nationally recognized as a CMMC cybersecurity expert with over 20 years of experience, Kyle architects NIST 800-171 and CMMC compliance solutions for the Defense Industrial Base (DIB).
- His distinguished career includes cybersecurity advisor roles at ExxonMobil, Zoom, DISA, Boeing, and Microsoft. Kyle specializes in efficient CMMC compliance and serves manufacturers, aerospace, software, engineering, and IT/MSP companies.

# About KLC Consulting



- Founded in 2002, we bring decades of experience and the powerful advocacy of an authorized C3PAO to the table.
- Our collaborative approach alleviates stress and inspires confidence.
- We'll get you CMMC certified so you can win more DoD contracts and grow your business.



# Agenda

- ❖ CMMC Update – The CMMC Proposed Rule
- ❖ 5 Tools to Assist Your Clients with CMMC
- ❖ Q&A

# CMMC Acronyms

C3PAO	CMMC Third-Party Assessment Organization	MSSP	Managed Security Service Provider
CAICO	CMMC Assessors and Instructors Certification Organization	NARA	National Archives and Records Administration
CAGE	Commercial and Government Entity	NAICS	North American Industry Classification System
CCA	CMMC Certified Assessor	NIST	National Institute of Standards and Technology
CCP	CMMC Certified Professional	N/A	Not Applicable
CFR	Code of Federal Regulations	ODP	Organization-Defined Parameter
CMMC	Cybersecurity Maturity Model Certification	OSA	Organization Seeking Assessment
CMMC PMO	CMMC Program Management Office	OSC	Organization Seeking Certification
CUI	Controlled Unclassified Information	OT	Operational Technology
DFARS	Defense Federal Acquisition Regulation Supplement	PIEE	Procurement Integrated Enterprise Environment
DIB	Defense Industrial Base	PLC	Programmable Logic Controller
DIBCAC	Defense Industrial Base Cybersecurity Assessment Center	POA&M	Plan of Action and Milestones
DoD	Department of Defense	PRA	Paperwork Reduction Act
eMASS	Enterprise Mission Assurance Support Service	RM	Risk Management
ESP	External Service Provider	SAM	System for Award Management
FAR	Federal Acquisition Regulation	SCADA	Supervisory Control and Data Acquisition
FCI	Federal Contract Information	SIEM	Security Information and Event Management
FedRAMP	Federal Risk and Authorization Management Program	SP	Special Publication
IoT	Internet of Things	SPRS	Supplier Performance Risk System
IR	Incident Response	SSP	System Security Plan
MSP	Managed Service Provider		

# FCI & CUI

## FCI = Federal Contract Information

Information not intended for public release, 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 including information provided by the Government to the public.

## CUI = Controlled Unclassified Information

Government created or owned information that requires safeguarding or dissemination controls consistent with applicable laws, regulations and government wide policies.

# CMMC Proposed Rule – Overview

- Title 32 CFR Part 170 - Released 12/26/2023
- Incorporates NIST 800-171 Rev 2. (No reference to Rev 3)
- The 60-day public comment period ended 2/26/2024
- We're now in the DoD response period (up to 280 days)
- The CMMC Ecosystem estimates the updated DFARS 252.204-7021 (CMMC) will be issued in Q2-Q3 of 2025

## ***Optional Early Recognition***

- Joint Surveillance Voluntary Assessment (JSVA) – DoD will convert it to CMMC L2 Certification IF all controls are MET with NO POA&M items

# CMMC Proposed Rule – Overview

## 4 Types of Assessments

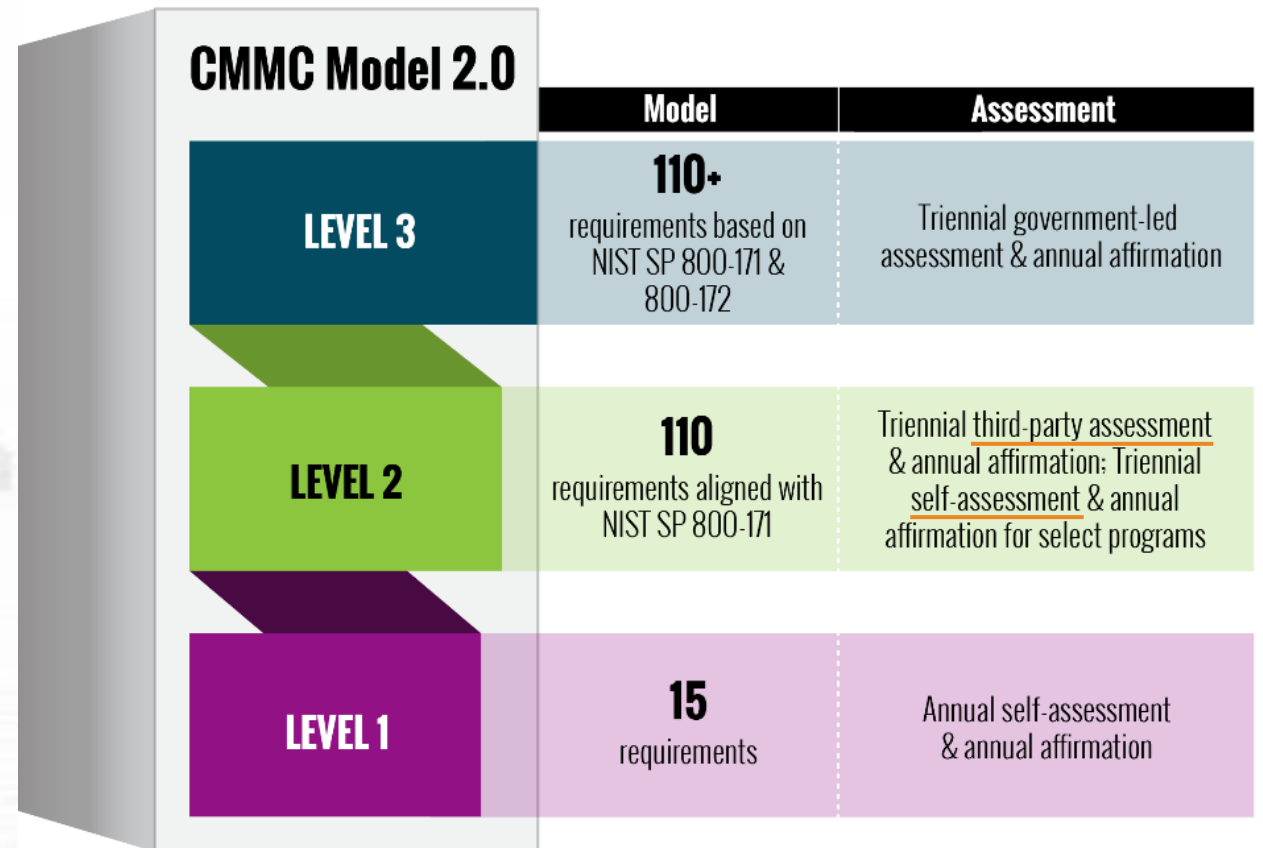
- **Level 1:** Self-Assessment
- **Level 2:** Self-Assessment  
Certification Assessment (C3PAO)
- **Level 3:** Certification Assessment (DoD)

## External Service Provider

(ESP) processes, stores, or transmits CUI or Security Protection Data (i.e., security logs) via the ESP's assets must get CMMC Level 2 or higher Certification

## Cloud Service Provider

(CSP) must have FedRAMP Moderate or Equivalency





# DoD's Estimated Number of OSAs / OSCs

**Table 3 - Estimated Number of Entities by Type and Level**

Assessment Level	Small	Other than Small	Total	Percent
Level 1 Self-Assessment	103,010	36,191	139,201	63%
Level 2 Self-Assessment	2,961	1,039	4,000	2%
Level 2 Certification Assessment	56,689	19,909	76,598	35%
Level 3 Certification Assessment	1,327	160	1,487	1%
<b>Total</b>	<b>163,987</b>	<b>57,299</b>	<b>221,286</b>	<b>100%</b>
<b>Percent</b>	<b>74%</b>	<b>26%</b>	<b>100%</b>	

Source: CMMC Proposed Rule (32 CFR Part 170)

# Level 1 – Self-Assessment

## Level 1 Self-Assessment Requirements

- Performed annually
- Results entered in the Supplier Performance Risk System (SPRS)
- POA&M: **No POA&M is allowed**
- **Annual Affirmation:**
  - A company senior official annually affirms continuing compliance with the specified security requirements
  - **Affirmations are entered in SPRS**
- New numbering based on FAR 52.204-21 numbering scheme
- Requirements flow down to subcontractors

# Level 2 – Certification Assessment

## Level 2 Certification Assessment Requirements

- Assessed (audited) by a C3PAO triennially (once every three years)
- Specialized Assets (e.g., IoT, OT) aren't assessed (if not used for CMMC L3 Certification) but must be documented in the SSP
- C3PAO enters results into the eMASS reporting system (managed by DoD)
  - Results transfer to the SPRS system
- POA&M Allowed: Non-critical NIST 800-171 security practices are allowed but must be closed within 180 days of the assessment (Only applies if 80%+ (88+) of the 110 requirements are MET)
- **Annual Affirmation:**
  - A company senior official affirms continuing compliance after every assessment
  - **Affirmations are entered in SPRS**
- **Retain artifacts for a minimum of 6 years**
- New numbering scheme – aligns with Level 2 Assessment Guide.
  - Level 2 assessments/certifications will only assess CUI, not FCI.
- Requirements flow down to subcontractors

# DoD's Estimate of Company Assessments

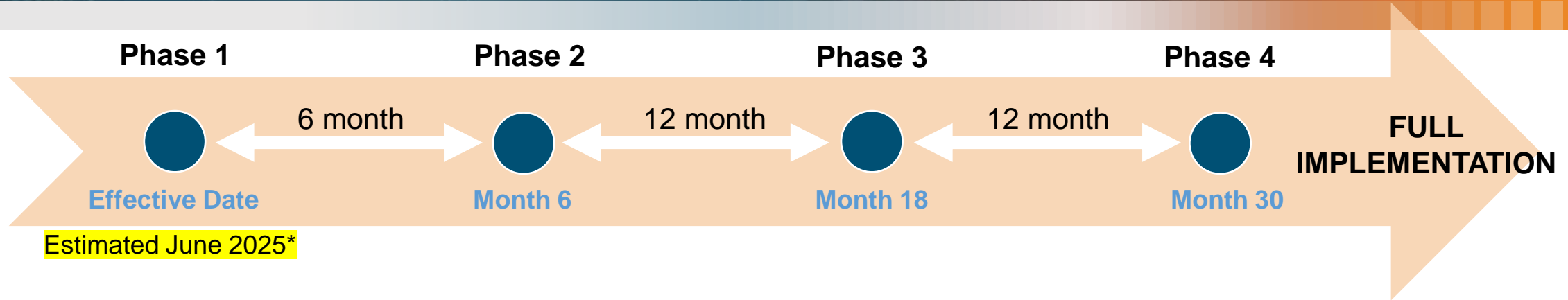
**Table 6 - \*Number of Total Entities Over Phase-In Period**

Yr	Level 1 Self-Assess	Level 2 Self-Assess	Level 2 Certification	Level 3 Certification	Total
1	945	27	517	4	1,493
2	4,720	136	2,599	50	7,505
3	15,748	453	8,666	169	25,036
4	30,184	867	16,610	323	47,984
5	30,179	867	16,606	323	47,975
6	30,179	867	16,606	323	47,975
7	27,246	783	14,994	295	43,318
<b>Tot</b>	<b>139,201</b>	<b>4,000</b>	<b>76,598</b>	<b>1,487</b>	<b>221,286</b>

Source: CMMC Proposed Rule (32 CFR Part 170)

Note: This estimate does not include organizations requiring re-certifications after 3 years.

# CMMC Program Implementation – 4 Phases



- **PHASE 1:** Begins on the date of CMMC implementation – requires Level 1 and Level 2 **Self-Assessment**
- **PHASE 2 (Month 6):** Begins six months after Phase 1 – requires **CMMC Level 2 Certification Assessment on new contracts.**
- **PHASE 3 (Month 18):** Begins one year after Phase 2 –
  - requires CMMC Level 3 Assessment-Certification
  - requires **Level 2 Assessment-Certification** for all applicable contracts and option periods started **before the effective date.**
- **PHASE 4 (Month 30):** **Full implementation** one year after Phase 3 begins, **mandatory for all applicable DoD contracts.**

# 5 Useful Tools To Assist Your Clients

**TOOL 1:** Typical Journey to CMMC

**TOOL 2:** Objective Evidence List

**TOOL 3:** Free Cybersecurity & CUI Training

**TOOL 4:** Decision for FCI, CUI, Public Info

**TOOL 5:** CUI Data Flow - Discovery Questions

**Available for download:**

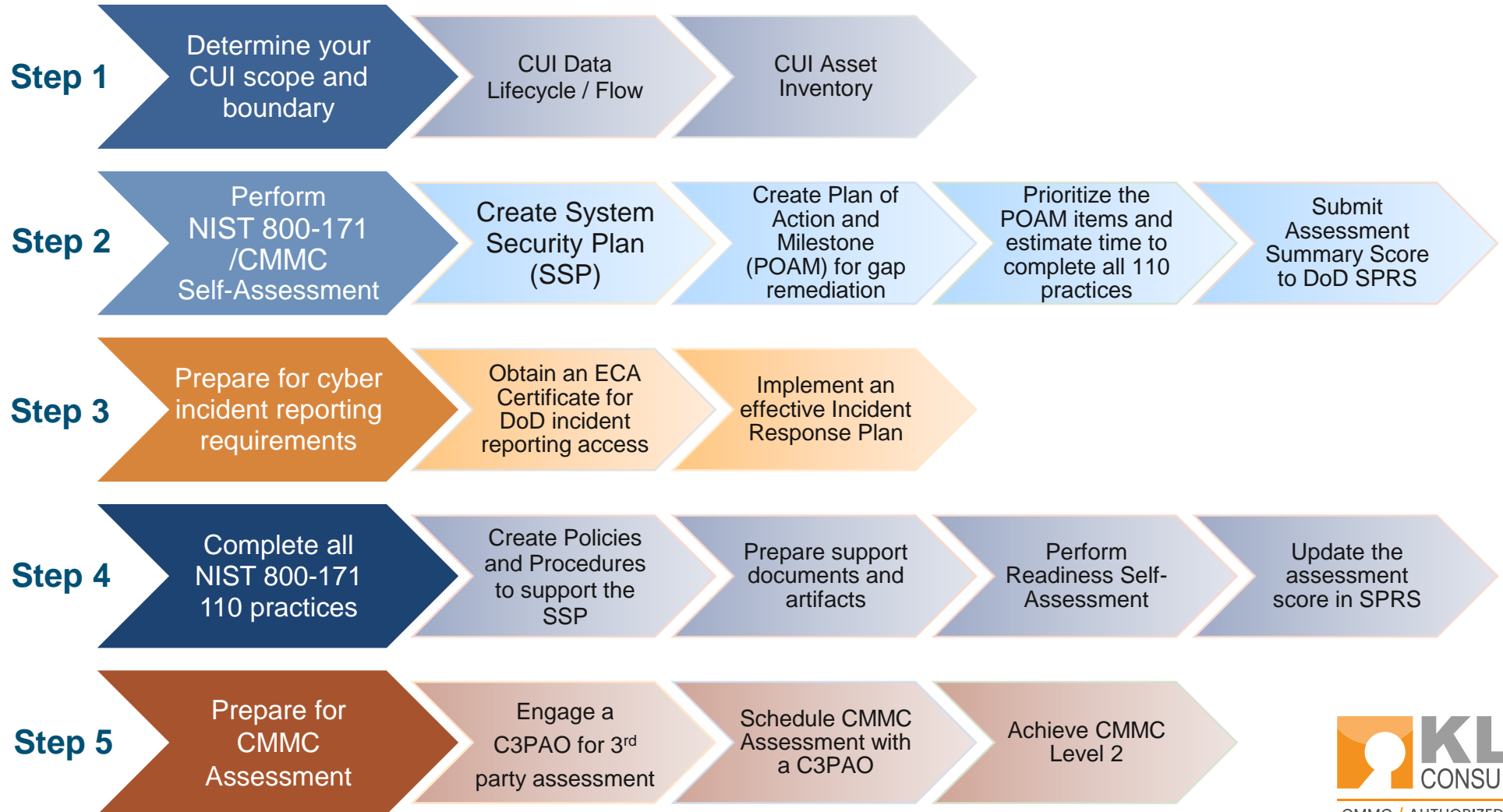
<https://klcconsulting.net/napex>



# Tool 1: Typical Journey to CMMC Level 2 Certification

(created by KLC Consulting)

Anticipate 12+ months.  
Varies by staff resource availability.



# Tool 2: CUI Data Flow Discovery (created by KLC Consulting)

To Document CUI Flow, Scope, and Roles & Responsibilities

Document each stage of CUI flow through your business:

## Stage 1: CUI Receipt/Input/Creation:

- Who receives/creates CUI?
- What type of CUI do people receive/create?
- What methods do people use to acquire CUI?
- What system(s) do people use to process CUI?
- What system(s) do people use to store CUI?
- Who do people notify after receiving CUI (manually or automatically)?

## Stage 2: CUI Flow (through Each Successive Process or Department):

- What do the responsible people do with the CUI they receive?
- What system(s) are used to process CUI?
- What system(s) are used to store CUI?
- Who does the person notify in the next Process or Department?
- Continue Stage 2 through successive Processes/Departments leading to Product or Service delivery)

## Stage 3: Product or Service Delivery:

- What do people do with CUI before customer delivery?
- Is there any CUI attached to the products/services delivered? (I.e., technical report, test results)
- What steps do people take to archive CUI (if required to store for an extended period)?
- For paper CUI, how do people store (I.e., file cabinet) or destroy (I.e., shredding) CUI?

## CUI Scoping Considerations

<b>People</b> <ul style="list-style-type: none"><li>• Employees</li><li>• Contractors</li><li>• Vendors</li><li>• External Service Provider Personnel</li></ul>	<b>Technologies</b> <ul style="list-style-type: none"><li>• Computers (servers, laptops,..)</li><li>• Firewall / VPN</li><li>• Applications, Database</li><li>• Devices (USB, external hard drives)</li></ul>
<b>Facilities</b> <ul style="list-style-type: none"><li>• Physical Office Locations</li><li>• Satellite Offices</li><li>• Secure rooms, Data Centers</li><li>• Manufacturing Plants</li></ul>	<b>External Service Providers</b> <ul style="list-style-type: none"><li>• Cloud Service Providers (CSP)</li><li>• Data Center Providers</li><li>• Hosting Providers (i.e., website)</li><li>• Managed Service Providers (MSP)</li></ul>



# Tool 3: Objective Evidence List (Created by DCMA DIBCAC)

OBJECTIVE	SECURITY REQUIREMENT	TEAM INPUT	EVIDENCE EXAMPLES (ASSESSORS ARE NOT LIMITED OR RESTRICTED TO EXAMPLES)	CMMC ASSESSMENT CONSIDERATIONS (CMMC Assessment Guide - Level 2)
3.1.1	Limit system access to authorized users, processes acting on behalf of authorized users, and devices (including other systems).			
3.1.1[a]	Authorized users are identified.	Screen Share	Document defining account request, approval, provisioning.	Is a list of authorized users maintained that defines their identities and roles?
3.1.1[b]	Processes acting on behalf of authorized users are identified.	Screen Share	Document defining account request, approval, provisioning.	
3.1.1[c]	Devices (and other systems) authorized to connect to the system are identified.	Screen Share	Document defining account request, approval, provisioning.	
3.1.1[d]	System access is limited to authorized users.	Screen Share	Screen share showing login requirements are enforced. Example of an unauthorized user denied (Unauthorized username entered at login)	Are account requests authorized before system access is granted?
3.1.1[e]	System access is limited to processes acting on behalf of authorized users.	Screen Share	Screen shot showing that service accounts are assigned to authorized users only. No rogue accounts without an authorized user are active.	Are account requests authorized before system access is granted?
3.1.1[f]	System access is limited to authorized devices (including other systems).	Screen Share	Screen share showing that all devices running are authorized. No rogue devices on the network.	Are account requests authorized before system access is granted?
3.1.2	Limit system access to the types of transactions and functions that authorized users are permitted to execute.			
3.1.2[a]	The types of transactions and functions that authorized users are permitted to execute are defined.	Document	SSP, AUP, or IAM document that defines what authorized users can execute.	Are access control lists used to limit access to applications and data based on role and/or identity?
3.1.2[b]	System access is limited to the defined types of transactions and functions for authorized users.	Screen Share	Screen shot of security roles in AD or IAM tool that shows transactions are as defined in the SSP or IAM document. Privileged and Non-privileged accounts need to be defined and identified in the artifact. Screenshot of a non-privileged user trying to execute a privileged function.	Is access for authorized users restricted to those parts of the system they are explicitly permitted to use (e.g., a person who only performs word-processing cannot access developer tools)?

# Tool 4: Free CMMC Training Resources (created by KLC Consulting)

To Meet Cybersecurity  
Training Requirements  
for CMMC 3.2.x

## FREE DoD-developed cybersecurity training for Regular and Privileged Users:

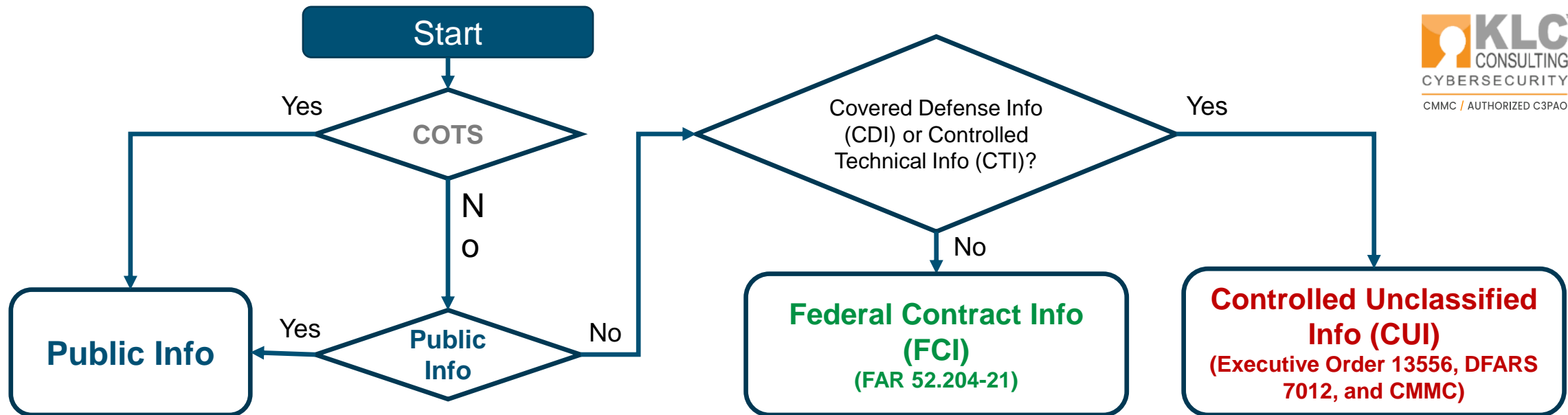
We've aggregated this list of free DoD-required training for the protection of CUI and FCI data.

- **(All users) DoD Cyber Awareness training –**  
<https://public.cyber.mil/training/cyber-awareness-challenge/>
  - This training covers cybersecurity awareness, phishing, insider threats, social media security
- **(All users) DoD Insider Threat Awareness Training -**  
<https://securityawareness.usalearning.gov/itawareness/index.htm>
  - This training covers the Insider Threat training
- **(CUI users) DoD Mandatory CUI Training -**  
<https://securityhub.usalearning.gov/index.html>
  - This training covers the definition and nature of CUI and the proper handling of CUI

## Privileged Users Training:

- **DoD Privileged Users Training**  
<https://www.cdse.edu/Training/eLearning/DS-IA112/>
  - This training covers the additional cybersecurity responsibilities for privileged users

# Tool 5: Decision Tree to Distinguish FCI, CUI, & Public Info (created by KLC Consulting)



**COTS (Commercially Off-The-Shelf)** = software and hardware that already exists and is available from commercial sources. It is also referred to as off-the-shelf.

**Controlled Technical Information (CTI)** = technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination.

**FCI** = Information not intended for public release, 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 including information provided by the Government to the public.

**Covered Defense Information (CDI)** = unclassified controlled technical information (CTI), DoD critical infrastructure security information, naval nuclear propulsion info, and DoD unclassified controlled nuclear info.

**Examples of CTI** = research and engineering data, engineering drawings, specifications, standards, process sheets, manuals, technical reports, data sets, studies and analyses and related information, and computer software executable code and source code.

**CUI** = Government created or owned information that requires safeguarding or dissemination controls consistent with applicable laws, regulations and government wide policies.

Download Our Tools at: <https://kccconsulting.net/napex>

# 5 Useful Tools To Assist Your Clients

Scan QR Code to Download



**Tool 1: Typical Journey to CMMC (created by KLC Consulting)**

Anticipate 12+ months. Varies by staff resource availability.

Step	Activity	Output
Step 1	Determine your CUI scope and boundary	CUI Data Lifecycle / Flow, CUI Asset Inventory
Step 2	Perform NIST 800-171 CMMC Self-Assessment	Create System Security Plan (SSP), Create Plan of Action and Milestone (POAM) for gap remediation, Prioritize the POAM items and estimate time to complete all 110 practices, Submit Assessment Summary Score to DoD SPFRS
Step 3	Prepare for cyber incident reporting requirements	Obtain an ECA Certificate for DoD incident reporting access, Implement an effective Incident Response Plan
Step 4	Complete all NIST 800-171 110 practices	Create Policies and Procedures to support the SSP, Prepare support documentation and artifacts, Perform Readiness Self-Assessment, Update the assessment score in SPFRS
Step 5	Prepare for CMMC Assessment	Engage a C3PAO for 3rd party assessment, Schedule CMMC Assessment with a C3PAO, Achieve CMMC Level 2

**Tool 2:**

OBJECTIVE	DESCRIPTION
3.1.1	Limit system processing users, web systems)
3.1.1(a)	Authorize processing users and
3.1.1(b)	Devices (connect to
3.1.1(c)	System re users.
3.1.1(d)	Systems acting as
3.1.1(e)	System re devices (L
3.1.1(f)	Limit system connected users and
3.1.2(a)	The typical access/permissions documentation and authorized users are defined.
3.1.2(b)	System access is limited to the defined type(s) of transactions and functions for authorized users.

**Tool 3:**

**FREE DoD- We've aggregated the protector**

- (All users) <https://cui.gov>
- This training covers the definition and nature of CUI and the proper handling of CUI

**Tool 4:**

**Public Info**

COTS (Commercially software and hardware and is available from sources. It is also referred to as shelf.

**Tool 5:**

Document each stage

**Stage 1: CUI Receipt**

- Who receives/creates
- What type of CUI?
- What methods do
- What system(s) do
- Who do people no

**Stage 2: CUI Flow (I**

- What do the respo
- What system(s) ar
- Who does the part
- Continue Stage 2) Product or Service

**Stage 3: Product or**

- What do people do
- Is there any CUI attached to the products/services delivered? (i.e., technical report, test results)
- What steps do people take to archive CUI (if required to store for an extended period)?
- For paper CUI, how do people store (i.e., file cabinet) or destroy (i.e., shredding) CUI?

**Examples of CUI:** research and engineering data, engineering drawings, specifications, standards, process sheets, manuals, technical reports, data sets, studies and analyses and related information, and computer software executable code and source code.

**CUI:** Government created or owned information that requires safeguarding or dissemination controls consistent with applicable laws, regulations and government wide policies.

**KLC CONSULTING**  
CMMC / AUTHORIZED C3PAO

# FREE 2-Hour CMMC Workshop for Any APEX Accelerator

KLC Consulting empowers small businesses to pursue certification in CMMC with **confidence**

## FREE CMMC WORKSHOP

For any local APEX Accelerator, KLC Consulting offers a **no-cost, 2-hour CMMC workshop** to demystify **CMMC** for you and your clients.



# Contact Information



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*Thank you!*