

EVERYTHING YOU
NEED TO KNOW
ABOUT THE NEW
DOD CYBERSECURITY
CERTIFICATION PROGRAM

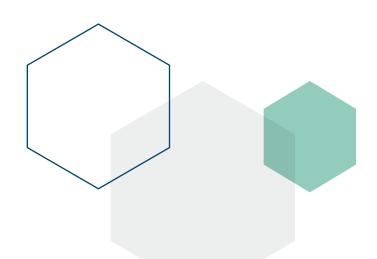




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Introduction

As engineers crafting the pulse-pounding electronics shaping the future of national defense, your focus is likely laser-sharp: pushing the boundaries of radar tech, squeezing raw power from silicon canyons, and forging the next generation of battlefield sensors. But in the ever-shifting landscape of government contracts, a new acronym is emerging – CMMC – and ignoring it could cast a shadow over your hard-earned innovations.

CMMC (Cybersecurity Maturity Model Certification) is the DoD's answer to a pressing concern: securing the intricate web of contractors and suppliers responsible for America's technological edge. Think of it as a high-tech padlock with three levels (per CMMC Model 2.0), each demanding progressively stronger cybersecurity practices. Manufacturing giants are already gearing up, recognizing that falling behind on CMMC isn't an option in this high-stakes game.





Understanding CMMC: From Sandbox to Battlefield

From the crucible of past cyberattacks, CMMC has evolved, shedding its initial complexity while retaining its core mission: safeguarding sensitive information. Each level represents a critical step towards a cyber-resilient supply chain. This isn't just about protecting spreadsheets; it's about shielding the blueprints for classified radar tech, the next-gen targeting algorithms for your AESA masterpiece, and the delicate network of battlefield sensors.

According to the DoD, in 2019, DoD announced the development of CMMC to move away from a "self-attestation" security model. It was first conceived by the Office of the Under Secretary of Defense for Acquisition and Sustainment (OUSD(A&S)) to secure the Defense Industrial Base (DIB) sector against evolving cybersecurity threats.

In September 2020, DoD published an interim rule, Defense Federal Acquisition Regulation Supplement (DFARS): Assessing Contractor Implementation of Cybersecurity Requirements (DFARS Case 2019–D041),[4] which implemented the DoD's initial vision for the CMMC Program ("CMMC 1.0") and outlined the basic features of the framework (tiered model of practices and processes, required assessments, and implementation through contracts) to protect FCI and CUI. The interim rule became effective on 30 November 2020, establishing a five-year phase-in period. In response to approximately 750 public comments on the CMMC 1.0 Program, in March 2021, the Department initiated an internal review of CMMC's implementation.

In November 2021, the <u>Department announced</u> "CMMC 2.0," an updated program structure and requirements designed to achieve the primary goals of the internal review:

- Safeguard sensitive information to enable and protect the warfighter
- Enforce DIB cybersecurity standards to meet evolving threats
- · Ensure accountability while minimizing barriers to compliance with DoD requirements
- Perpetuate a collaborative culture of cybersecurity and cyber resilience
- Maintain public trust through high professional and ethical standards





Structuring the Unstructured

The Cybersecurity Maturity Model Certification (CMMC) 2.0 Program brings a structured approach to protecting sensitive unclassified DoD information, ensuring its safety throughout the contracting ecosystem. Here are its key features:

- Tiered Security: CMMC is built on a graduated model, recognizing that different contracts handle
 information with varying degrees of sensitivity. Companies must implement progressively advanced
 cybersecurity controls based on the specific data entrusted to them. This tiered approach balances
 security needs with practical implementation, ensuring cost-effectiveness without compromising
 information protection.
- 2. Independent Verification: To guarantee that companies are genuinely adhering to these cybersecurity standards, CMMC introduces independent assessments. Qualified assessors will evaluate a company's security practices against the relevant CMMC level, providing validation and valuable feedback for further improvement. This assessment requirement adds a layer of accountability and trust to the system.
- 3. Contractual Integration: CMMC isn't merely an advisory framework; it's woven into the fabric of DoD contracting. Once fully implemented, specific contracts dealing with sensitive information will mandate a minimum CMMC level as a prerequisite for award. This integration incentivizes compliance and creates a level playing field for companies vying for DoD contracts.

Important Note: CMMC builds upon existing cybersecurity requirements in DFARS 7012 and NIST SP 800-171, which are already expected in many DoD contracts. CMMC is the next step, providing a structured framework for verifying and enforcing these existing baseline standards.

In essence, CMMC 2.0 offers a three-pronged approach to securing national security information: tiered protection based on data sensitivity, independent assessments for accountability, and contractual integration for broader adoption. By understanding these key features, companies working with the DoD can prepare for a future where robust cybersecurity becomes not just a best practice but a contractual requirement.



Vertical Integration Alleviates Production Delays

Learn more about how Signal Hound was able to overcome six months of production delays by finding a manufacturing partner that offered vertical integration.

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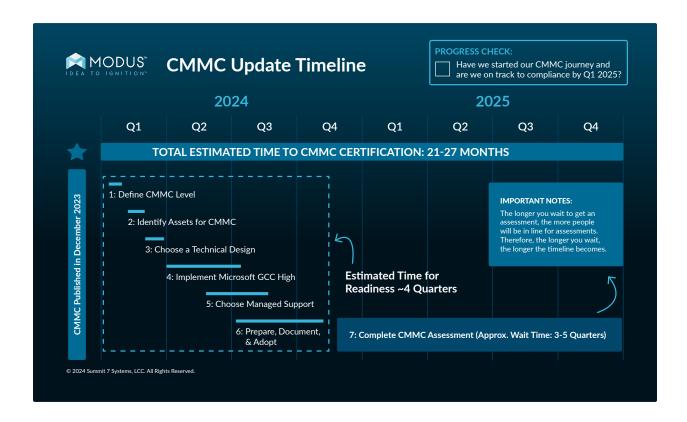




CMMC Timeline

Mark your calendars: December 2023 saw the rule published, while assessments kick off in Q1 2025. The real action starts Q3 2025 with the phased rollout of CMMC in contracts. But don't get caught napping! The three-tiered CMMC system means prep time varies based on data sensitivity. Level 2, the most common, demands 12-18 months for assessment prep, followed by a 9-15 month wait.

Proactiveness is key! Prime contractors are already eyeing subs for CMMC compliance, so prioritize your journey sooner rather than later.







Why CMMC Matters for Manufacturers: When Bits and Bullets Collide

CMMC directly impacts organizations supporting the <u>Department of Defense</u> or higher education research institutions handling:

- Federal Contract Information (FCI)
- Controlled Unclassified Information (CUI)
- Covered Defense Information (CDI)
- Controlled Technical Information (CTI)
- or ITAR/export-controlled data

According to the DoD, over 200,000 <u>aerospace and defense</u> suppliers are expected to meet CMMC compliance. Of those 200,000, DoD estimates that over 80,000 will need a CMMC level 2 certification.

As the backbone of the defense industrial base, manufacturers are ground zero for potential vulnerabilities. A compromised factory network could leak critical design secrets, disrupt production lines, or worse, cripple weapon systems mid-mission. Remember those headlines blaring about hacked power grids and stolen industrial secrets? Imagine that, but with the fate of an American soldier hanging in the balance.

The case for CMMC isn't just about compliance; it's about trust, resilience, and, ultimately, securing the warfighter's advantage. Studies show that robust cybersecurity practices can yield significant savings, not to mention the priceless peace of mind knowing your creations are shielded from malicious fingers.





CMMC Requirements for Manufacturers: Securing Your Production Lines

Now, let's get down to brass tacks. What specific cyber hygiene practices does CMMC demand from manufacturers like you? Buckle up because the requirements vary with each level.

The three levels of CMMC Model 2.0 are designed to safeguard Controlled Unclassified Information (CUI) at different sensitivity levels. Each level has its own set of requirements and assessment procedures. Here's a breakdown of each level:

Level 1: Foundational

- Focuses on basic cyber hygiene practices to protect CUI at rest.
- Requirements include security awareness training, inventory of systems and data, and limited access controls.
- Suitable for contracts handling administrative or basic IT infrastructure data.

Level 2: Advanced

- Covers CUI in transit and at rest, with more stringent security controls.
- Requirements include formal security policies, incident response plans, multi-factor authentication, and data encryption.
- Most DoD contracts and systems handling sensitive data fall under this level.

Level 3: Expert

- Provides the highest level of protection for highly sensitive CUI with rigorous security controls.
- Requirements include continuous monitoring, penetration testing, supply chain security, and government-approved encryption.
- Applies to classified information and critical infrastructure.

Choosing the right CMMC level is crucial for your business. It depends on the types of CUI you handle in your DoD contracts or subcontract agreements. Higher levels require more time and resources for implementation, but they also offer greater protection for sensitive data and potentially more lucrative contracts.

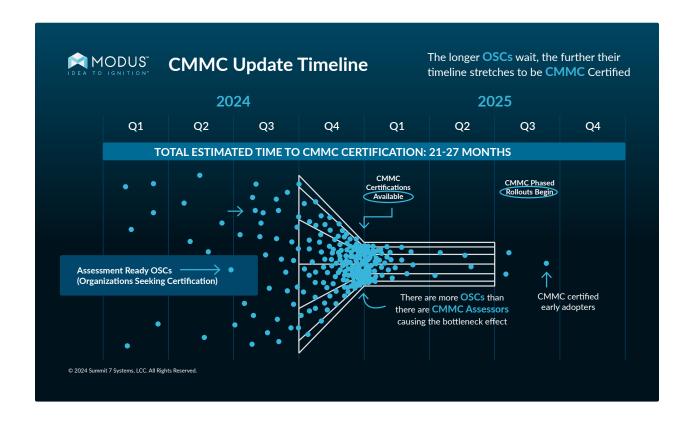




Here's a helpful analogy to understand the levels:

Think of CMMC levels like climbing a mountain. Level 1 is the base camp, Level 2 is halfway up, and Level 3 is the summit. The higher you climb, the more challenging it gets, but the better the view (and the more secure your data).

And remember, even if your contracts fall under Level 1, many prime contractors expect subcontractors to be CMMC Level 2 compliant.







Transparency Beyond Compliance: SPRS Scores

While CMMC compliance is a crucial step, Modus Advanced believes in going above and beyond. We're proud to announce that we've completed a self-assessment for the Supplier Performance Risk System (SPRS). But what does this mean for you, our valued OEM customers?

What is an SPRS Score?

The SPRS score measures a manufacturer's current cybersecurity compliance with NIST 800-171. Essentially, it's a quantifiable assessment of their cybersecurity posture, reflecting their commitment to safeguarding Controlled Unclassified Information (CUI).

Why is this important?

DoD prime contractors and subcontractors self-report their scores to the DoD, which offers unprecedented transparency and immediate insight into a businesses security strength, allowing the DoD to:

- Make informed decisions: Choose a partner who minimizes potential risks.
- Build stronger partnerships: Transparency fosters trust and open communication, laying the groundwork for long-term collaboration.

Beyond the score: a culture of security excellence.

At Modus, our commitment goes beyond just a number. We've implemented industry-leading security practices exceeding CMMC requirements, including:

- Regular security assessments: We proactively identify and address vulnerabilities.
- Continuous employee training: We empower our team to be vigilant against cyber threats.
- Cutting-edge security technologies: We invest in the latest tools and solutions.

So, when you partner with Modus Advanced, you're not just choosing a CMMC-compliant supplier; you're choosing a partner who prioritizes security, transparency, and a relentless pursuit of excellence.





Challenges and Solutions in Achieving CMMC Compliance

The path to CMMC certification, like scaling a secure mountain pass, can be riddled with obstacles. Here's a field guide to help you navigate the common challenges:

Challenge 1: Your Cyber Budget

Implementing robust cybersecurity measures often comes with a hefty price tag. Balancing security investments with production costs can be a balancing act.

The cost for a Level 2 CMMC assessment will include Assessment Costs (initial and every three years after) and Affirmation Costs (annually). The <u>DoD estimates</u> that the cost of assessment and affirmation will be around \$104,670. This only includes the assessment.

Beyond that, there are costs associated with implementation, migration, and scoping with a skilled IT person or outsourced to a third-party provider. Implementation includes migration to a compliant platform and all the technical changes required to become compliant (such as NIST SP 800-171).

Challenge 2: Complexity of CMMC Compliance

Navigating the intricate web of CMMC requirements and jargon can be daunting, especially for smaller manufacturers lacking dedicated cybersecurity expertise.

Here are some ways to navigate that:

- Seek expert guidance: Partner with reputable CMMC consultants or managed security service providers (MSSPs) for technical expertise and guidance.
- Leverage available resources: Utilize CMMC training materials and resources provided by the DoD and industry associations.
- **Simplify with tools**: Invest in user-friendly cybersecurity tools and software platforms to streamline CMMC compliance.





Challenge 3: Securing Your Ecosystem

Ensuring your entire supply chain adheres to CMMC standards can be complex, especially with smaller, less tech-savvy partners.

Solutions include:

- Engaging your partners: Building solid relationships with suppliers and subcontractors is a cornerstone of ecosystem security. Engage in open communication, assess their current security posture, and offer a helping hand. Their success strengthens your own.
- **Phased integration**: Don't attempt to conquer the entire supply chain simultaneously. Prioritize integration based on criticality, starting with vendors handling the most sensitive data or performing crucial functions. Gradually spread the CMMC gospel outwards, offering support and guidance as smaller partners climb the compliance mountain.
- Leverage CMMC Marketplace: Utilize the <u>official CMMC Marketplace</u> to find pre-assessed suppliers that meet CMMC requirements. This resource acts as a digital armory, housing a network of pre-assessed suppliers who have already proven their CMMC mettle. Partnering with such providers simplifies integration and immediately strengthens your ecosystem's defenses.





CMMC and Its Impact on Business Opportunities

CMMC certification isn't just a security hurdle; it's a key that unlocks new doors to business opportunities. Let's explore how achieving CMMC compliance can catapult your company to greater heights:

Earning Your Place at the Defense Contract Table

CMMC certification is becoming increasingly mandatory for major DoD contracts. With CMMC under your belt, you'll be pre-qualified to compete for a broader range of lucrative government projects. As a subcontractor, it also makes you an "easy yes" when prime contractors seek out your capabilities.

Early Compliance

Being an early adopter of CMMC demonstrates your commitment to cybersecurity and positions you as a trusted partner for the DoD and prime contractors. This proactive approach can give you a significant edge over competitors still grappling with compliance via:

- Enhanced Reputation: CMMC compliance elevates your brand, boosting your credibility and trust within the Defense Industrial Base (DIB). It paints you as a reliable, security-conscious organization, making you a magnet for lucrative contracts and valuable partnerships.
- Competitive Edge: While your rivals struggle to navigate the CMMC maze, you'll sail smoothly through procurement processes, already pre-qualified for contracts demanding higher security levels. This gives you a head start in securing the most desirable projects and establishing yourself as a preferred partner.
- Streamlined Operations: Implementing CMMC early isn't just about meeting requirements; it's about building a robust security framework that permeates your organization. This translates to improved data protection, reduced risk of breaches, and ultimately, smoother, more efficient operations.
- Cost Savings: Proactive compliance is an investment that pays off handsomely in the long run. By tackling CMMC head-on, you avoid the rush-hour price surge (and availability) for assessors and consultants, optimize your budget, and minimize future compliance headaches.

Long-Term Benefits

The enhanced security practices implemented for CMMC compliance go beyond mere government contracts. You'll reap long-term benefits like reduced cyber risks, improved data protection, and a more secure operating environment, boosting your overall business reputation and attracting investors.





CMMC isn't just a checkbox; it's a springboard for growth. By embracing its challenges and reaping its rewards, you'll secure your future in the government contracting landscape and build a more resilient and innovative manufacturing enterprise. Your dedication to secure innovation is not just safeguarding classified data; it's safeguarding the trust and capabilities of those who put their lives on the line for our nation.



Small Bead FIP: Breaking the Bead Size Boundaries of Form-In-Place Gaskets

Many of our <u>Defense partners</u> are challenging the boundaries of technology daily. As technology advances, electronics and devices are shrinking in size to accommodate more complex project designs-simply put, they require more technology in less space. It pays to have a manufacturing part who is willing to push the boundaries.

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Keeping Up with CMMC Updates

The CMMC landscape is one of constant evolution. While certification is a significant milestone, it's not a finish line. Staying abreast of CMMC updates and revisions is crucial for maintaining compliance and leveraging the changing landscape to your advantage.

Why It Matters

Cybersecurity threats are chameleon-like, constantly adapting and finding new vulnerabilities. Recognizing this dynamic reality, the DoD continuously refines CMMC requirements to keep pace. Stay informed to avoid exposing your company to new risks and jeopardizing your hard-earned (and expensive) certification.

Continuous Improvement

CMMC compliance shouldn't be a one-time effort but a continuous journey of improvement. Regularly re-evaluate your cybersecurity posture, conduct internal audits, and actively seek out new threats and vulnerabilities. This proactive approach will ensure you're ahead of the curve and foster a culture of security within your organization.

Staying informed and adapting to change are vital to any successful defense technology. Treat CMMC updates as the intelligence reports guiding your next cyber defense maneuver. Tracking changes, analyzing their impact, and actively improving your security posture can turn this into an opportunity for greater resilience and long-term success.





Final Thoughts

As engineers on the cutting edge of national defense technology, securing your innovations is paramount. CMMC isn't just a bureaucratic hurdle; it's a gateway to a future where trust, security, and innovation forge an unbreakable alliance. By embracing CMMC compliance, you're not simply ticking a box; you're safeguarding the lives of those relying on your creations and propelling the defense industry toward a more secure and technologically advanced tomorrow.

Don't let the initial climb daunt you. Start your CMMC journey today – leverage the resources listed above, seek expert guidance, and remember, every step towards compliance strengthens your security posture and enhances your competitive edge.

At Modus Advanced, we've spent countless hours working toward CMMC compliance. We understand how critical it is to our <u>defense partners</u> and national security. We genuinely mean it when we say your mission is our mission – we're here to work with you in lockstep, from idea to ignition. Reach out today to speak with our team.

Speak to an ENGINEER today.

We strive to get every quote turned around in 24 hours or less to make sure you get the information you need faster.

GET QUOTE





Additional Resources

To truly get a handle on the information we've presented here, take a moment to review these additional pieces of information regarding CMMC compliance.

Official CMMC Documentation and Guidance

- CMMC Accreditation Body (CMMC-AB): https://cyberab.org/
- Defense Department CMMC Office: https://dodcio.defense.gov/CMMC/about/
- CMMC Marketplace
- National Institute of Standards and Technology (NIST): https://www.nist.gov/cybersecurity

Training and Workshop Opportunities

- CMMC-AB Approved Training Providers
- National Defense Industrial Association (NDIA): https://www.ndia.org/
- Aerospace Industries Association (AIA): https://www.aia-aerospace.org/
- Summit 7: https://www.summit7.us/webinars





Glossary of CMMC and Cybersecurity Terms

CMMC Terms

- CMMC (Cybersecurity Maturity Model Certification): A standardized framework for cybersecurity best practices established by the U.S. Department of Defense (DoD) for its contractors.
- CMMC Level: Each level, from 1 to 5, represents a progressive increase in cybersecurity maturity and the types of Controlled Unclassified Information (CUI) a contractor can handle.
- CMMC Assessment: An official evaluation conducted by a C3PAO to determine if a contractor meets the cybersecurity requirements of a specific CMMC level.
- C3PAO (CMMC Third-Party Assessment Organization): An independent organization accredited by the CMMC-AB to conduct CMMC assessments.
- **CUI (Controlled Unclassified Information):** Government information that requires protection but is not classified as confidential, secret, or top secret.
- **DoD** (**Department of Defense**): The U.S. government agency responsible for national defense, requiring CMMC compliance for certain contracts.
- DIB (Defense Industrial Base): The entire network of contractors and suppliers that support the DoD.
- **SP** (Security Plan): A documented plan outlining a contractor's security controls and processes for meeting CMMC requirements.
- PO (Process Owner): An individual responsible for implementing and maintaining specific security controls within the organization.

Cybersecurity Terms

- Access Control: The process of managing who has access to information and systems.
- Advanced Persistent Threat (APT): A sophisticated cybercriminal group targeting specific organizations with persistent cyberattacks.
- Authentication: The process of verifying a user's identity.
- Authorization: The process of granting specific permissions to access information and systems.
- Baseline Security: The minimum level of security controls necessary to protect an organization's information systems.
- Cybersecurity Incident: Any event that poses a potential threat to the confidentiality, integrity, or availability of an organization's information systems.
- **Data Encryption:** The process of converting readable data into a format that can only be deciphered with a specific key.
- Incident Response: The process of identifying, containing, and remediating a cybersecurity incident.
- Malware: Malicious software designed to harm computer systems or steal data.





- Multi-Factor Authentication (MFA): An authentication method requiring more than one factor, such as a password and a fingerprint, to verify a user's identity.
- **Penetration Testing:** Authorized simulated cyberattacks to identify vulnerabilities in an organization's security defenses.
- **Phishing:** An attempt to deceive users into revealing sensitive information, such as passwords, by posing as a trusted entity.
- Risk Management: The process of identifying, analyzing, and mitigating cybersecurity risks.
- **Vulnerability:** A weakness in an information system or its security controls that could be exploited by attackers.





Frequently Asked Questions (FAQs) about CMMC

Eligibility and Requirements

- Does my company need to be CMMC certified? Whether you need CMMC certification depends
 on the contracts you pursue. If you work with Controlled Unclassified Information (CUI) for DoD
 contracts, then CMMC compliance will likely be mandatory.
- Which CMMC level do I need? The required CMMC level depends on the type of CUI you handle. Higher levels involve more stringent security controls.
- What if I'm a small business or subcontractor? CMMC applies to the entire Defense Industrial Base (DIB), including small businesses and subcontractors. You may need to achieve at least Level 1 or 2 depending on your role in the supply chain.

Certification Process

- How do I get CMMC certified? You need to be assessed by a CMMC Third-Party Assessment
 Organization (C3PAO). The process involves self-assessments, documentation review, and interviews.
- How much does CMMC certification cost? The cost varies depending on your company size and CMMC level. Expect to spend tens of thousands to hundreds of thousands of dollars.
- How long does CMMC certification take? The process can take anywhere from three months to a year, depending on your preparation and the C3PAO's schedule.

Benefits and Challenges

- What are the benefits of CMMC certification? Enhanced cybersecurity, improved competitiveness for government contracts, reduced cyber risks, and increased trust with the DoD.
- What are the challenges of CMMC compliance? Cost, complexity, keeping up with revisions, and integrating security across your supply chain.
- How can I overcome these challenges? Seek expert guidance, utilize government resources, start early, and implement security in phases.

Additional Resources

- Where can I find more information about CMMC? Visit the official CMMC Accreditation Body (CMMC-AB) website and the Defense Department CMMC Office website.
- Who can help me with CMMC compliance? CMMC consultants, managed security service providers (MSSPs), and industry associations can offer guidance and support.
- How can I stay updated on CMMC changes? Subscribe to the CMMC-AB newsletter and follow reputable security blogs and publications.





Resources and Tools for Your CMMC Climb

- CMMC Accreditation Body (CMMC-AB): https://cyberab.org/
- Defense Department CMMC Office: https://dodcio.defense.gov/CMMC/
- CMMC Marketplace: https://cyberab.org/
- National Institute of Standards and Technology (NIST): https://www.nist.gov/cybersecurity
- Manufacturing Industry Council (MIC): https://seattleindustry.org/
- Cybersecurity & Infrastructure Security Agency (CISA): https://www.cisa.gov/

Navigating these challenges can be a collaborative effort. Seek support from government programs, industry associations, and security experts. With the right tools and guidance, you can conquer the CMMC climb and emerge with a more secure and resilient manufacturing ecosystem.





Related Content

• Why Modus Invests in Cybersecurity to Keep Customers Safe



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