



BUILDING A CYBER- READY DEFENSE INDUSTRIAL BASE

2026 Ivy Tech Community College Innovate Summit

Get to know me...

George Bailey

- ✓ I've spent most of my career in an operational information technology role. Last 23 years in information security / cybersecurity
- ✓ I am a three-time Purdue graduate, I bleed Black & Gold **#BoilerUp!**
- ✓ Focused on consulting and teaching for the last 15 years, SMB organizations mostly
- ✓ Husband, Father, Grandpa, and occasional Hacker
- ✓ I am an Army brat, calling Indiana home, for now...



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What is CMMC?

- ✓ Cybersecurity Maturity Model Certification
- ✓ Required for DoD contractors
- ✓ Ensures protection of sensitive data (CUI)
- ✓ Based on NIST 800-171r2 (currently) & NIST SP800-172



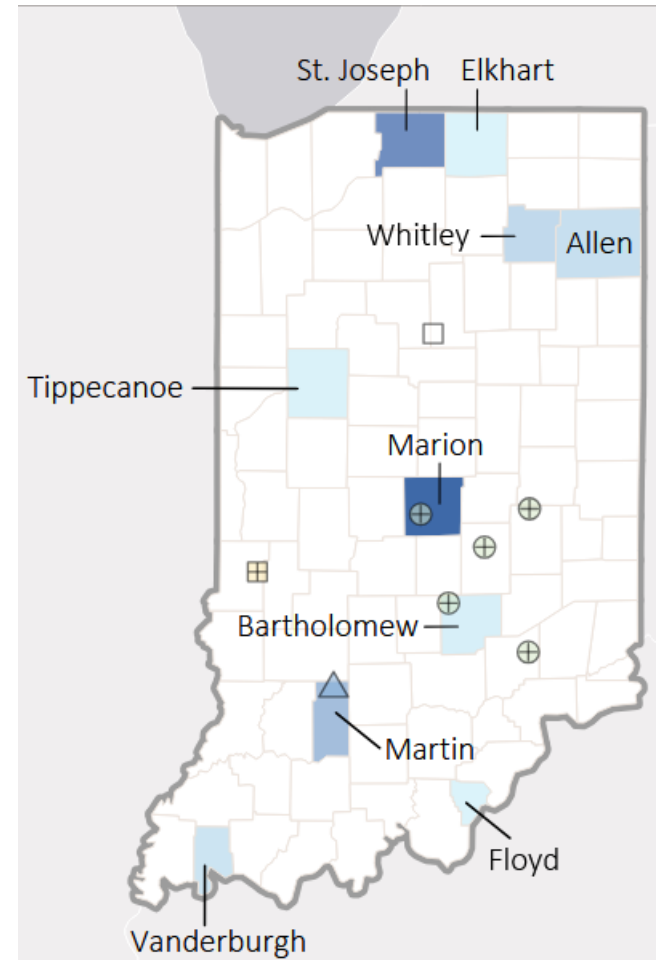
US's F35 and China's J31

Cybersecurity Maturity Model Certification (CMMC) update 2017 - 2026

- ✓ **CMMC was incorporated in the Code of Federal Regulations in December 2024, incorporated in DFARS in October 2025**
 - ✓ Level 1 self-assessments will be required to receive Federal Contract Information (FCI). 60%-70% of DoD contracts (About 245K companies).
 - ✓ Level 2 self-assessments or certifications required for Controlled Unclassified Information (CUI). ~35% of DoD contracts (123K companies).
- ✓ **DoD is moving toward integration in contracts**
 - ✓ CMMC Phase 1 implementation of self-assessments started on Nov 10, 2025
- ✓ **It is imperative that companies act promptly.**
 - ✓ Once a requirement for CMMC L2 self-assessed or certified appears as a pre-award requirement in a DoD contract that interests a company, it will be too late for anyone to help.
 - ✓ Putting a CMMC program in place that will withstand a certification audit/assessment takes 6-12 months.

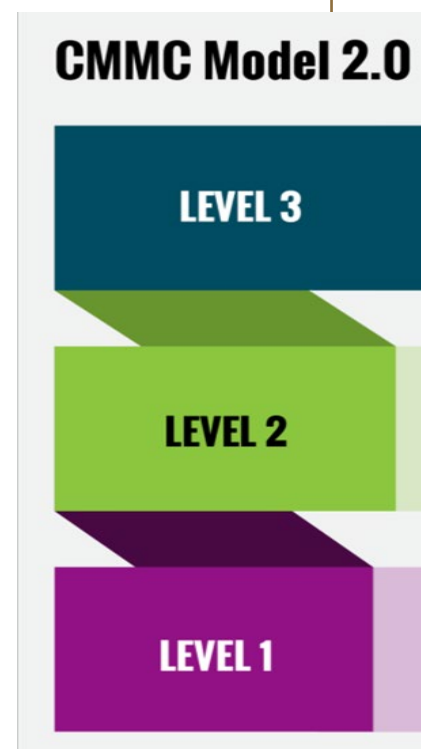
The Local Impact

- ✓ **Small manufacturers risk losing contracts**
 - ✓ CMMC certification will be a requirement prior to contract award.
- ✓ **Workforce shortages in cybersecurity compliance**
 - ✓ Not so much an industry headcount problem...but...
 - ✓ CMMC content experts are still lacking.
 - ✓ External support providers need upskilling.
- ✓ **Direct impact on regional economies**
 - ✓ No certification -> No contracts -> No jobs



CMMC Levels (Simplified)

- ✓ **Level 1: Basic cybersecurity**
 - ✓ 15 cybersecurity requirements.
 - ✓ Great entry point for IT / Cyber students.
 - ✓ FAR 52.204-21.
- ✓ **Level 2: Applied practices**
 - ✓ 110 cybersecurity requirements.
 - ✓ Great opportunity for faculty to partner with regional MSPs.
 - ✓ NIST SP800-171r2 & NIST SP800-171A.
- ✓ **Level 3: Advanced (limited demand)**
 - ✓ 134 cybersecurity requirements.
 - ✓ 110 from 800-171 and 24 from NIST SP800-172.



Where Companies Struggle

- ✓ **Lack of skilled staff**
- ✓ **Compliance complexity**
- ✓ **Documentation burden**
- ✓ **Understanding CUI**



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Emerging Roles

- ✓ **Cybersecurity Technician**
- ✓ **IT Compliance Specialist**
- ✓ **Security Support Analyst**
- ✓ **CUI Data Handler**

- ✓ **Information Security Career Paths**
 - ✓ Security Engineering
 - ✓ Incident responders
 - ✓ IT / Cybersecurity Auditors
 - ✓ Governance, Regulations, and Compliance (GRC) Analysts
 - ✓ Contract Analysts



Program Opportunities at Ivy Tech

- ✓ **Short-term certificates**
 - ✓ Introductory seminars for business leaders
 - ✓ Level 1 & Level 2 training for non-assessor personnel
- ✓ **Embedded curriculum**
 - ✓ Handling sensitive information (FCI & CUI)
- ✓ **Industry partnerships**
 - ✓ Internships
 - ✓ Hands-on student learning projects

Hands-On Learning Model

- ✓ **Simulated / Mock Audits**
 - ✓ Take advantage of your existing partnerships to add additional value to students and partner
- ✓ **Build System Security Plans**
- ✓ **Map Data Flows**
- ✓ **Create asset inventories**
- ✓ **Conduct Risk Analyses**
- ✓ **Real-world scenarios**
 - ✓ Hosting tabletop exercises with companies and students
 - ✓ Faculty guided projects with student involvement



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Next Steps for Ivy Tech

- ✓ **Pilot a course**
- ✓ **Engage local employers**
- ✓ **Align with workforce funding**
- ✓ **Build partnerships with C3PAOs and CCAs**
- ✓ **Become APP & ATP**
 - ✓ **Approved Publishing Partner**
 - ✓ **Approved Training Partner**



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Closing

- ✓ **CMMC is a workforce development opportunity**
- ✓ **Ivy Tech can lead in Indiana**
- ✓ **Support students, the industry, and local economies**