Configuration Management Training & Certification Courses

CMPIC®
www.cmpic.com

Configuration Management Certifications & Courses

All courses are designed and taught by CMPIC LLC

CMPIC's Courses, Certifications, & Programs

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Why Choose CMPIC?

Why choose CMPIC for your CM Training?

CMPIC provides high quality, cost-effective, and the most up-to-date Configuration Management (CM) training & certification. Our goal is to assure that CM and related professionals attain a complete understanding of the CM landscape; from principles and processes to effective and efficient implementation techniques. CMPIC training examines all perspectives of CM rather than focusing on a single ideology. CMPIC will give you implementation options that meet industry requirements and are considered best industry practice.

What is CMPIC's view on Industry Standards?

CMPIC believes that industry standards for Configuration Management (SAE EIA-649, ISO 10007, etc.), Quality (i.e. ISO 9001), CMMI, ITIL and others form a solid foundation for configuration management process implementation. These are all very well-written standards developed by experts who care about configuration management and continuous improvement. This is why we will discuss industry requirements in our courses.

Class approach: (1) know the requirements of the standards; (2) identify additional requirements that may be necessary but are not in the standards (such as automation, etc.); (3) learn the various implementation options and how to make them happen.

How competitive is CMPIC's pricing?

CMPIC courses are designed to be thorough yet concise, reducing time away from work. Public classes are held in many smaller to mid-size cities, typically resulting in lower accommodations expenditure. On-site classes, offered at a discounted rate, are available for groups as small as seven students. Finally, a quick search of the Internet will show you that our courses are competitively priced and our CM Principles & Implementation Certification (Courses 1-4) is completed in just 64 hours, meaning less travel, and less time away from work.

All CMPIC Training is in Partnership with the University of Houston

Student Testimonials:

"I've seen a few different CM presentations, all mostly consistent with each other. This course had more information, perspective, and insight than any other." Course 1 - CM Foundations

"The detail of change management really helped me understand what is lacking in my work environment."
Course 3 - Configuration Change Management

"The CMPIC approach is very intuitive and geared towards both new CMers and even the most seasoned guru. The disciplines of CM are explained in a way that makes it easier to bring about CM process improvements in the work place." Course 4 - CM Implementation

"I have been to a few software classes in my career, but this one really provides down to earth, day to day CM for software and how to relate with hardware." Course 8 - SCM: Strategies, Techniques, & Tools

"This course will be helpful in developing our new enterprise CM plan for our organization." Course 6 - EIA-649

"I always knew we could do a better job but now I am more excited about the possibilities after discussions and lessons. So many opportunities... where to begin?" Course 2 - CM Identification

CM Principles & Implementation Certification
CMPIC Courses 1-4

64 hours, 6.4 CEUs

Course 1
CM Foundations

Description

This 16-hour course provides a detailed overview of CM Planning, Identification, Audit, Change Control, and Status Accounting; and the role of configuration management in the organization. This is course one of a four course certification series.

Objectives

To learn the basic tenants of, and latest approaches to, configuration management including who is involved with and responsible for CM; how CM has evolved to its current state; and how CM can reduce corrective action and assure consistent conformance.

Outline: Course 1 Chapters

1. CM Overview
2. Who Needs CM?
3. CM History & Requirements (+ Workshop)
4. CM & Quality
5. Elements of CM
6. Terminology Issues(+ Workshop)
7. Life Cycle Concepts
8. Document, Data, & Management
9. CM & Information Quality (+ Workshop)
10. What Does CM Cost?
11. CM is Misunderstood
12. So You Don't Want CM?(+ Workshop)

Course 2
CM Identification

Description

This 16-hour course provides details and "how-to" approaches for baselining, structure, naming, numbering and more. This is course two of a four course certification series.

Objectives

To understand techniques for preparing and maintaining properly structured information and baselines. This will assure we know what we build, operate, and/or maintain throughout all phases of the life cycle.

Outline: Course 2 Chapters

1. Identification Overview
2. Identifiers, Numbering, & Naming
3. Product Structure Part 1 (+ Workshop)
4. Product Structure Part 2
5. Baselines
6. Identification & Change Management (+ Workshop)
7. CM Database
8. Identification Approaches
9. Interface Management (+ Workshop)
10. Re-Identification
11. Traceability
12. Status Accounting & Identification
--Certification Exam: 1 of 2--

CM Principles & Implementation Certification

CMPIC Courses 1-4 — 64 hours, 6.4 CEUs

Course 3
Configuration Change Management

Description
This 16-hour course is based on best industry practice and provides an in depth look into full life cycle change management principles coupled with successful implementation approaches. This is course three of a four course certification series.

Objectives
To understand change management logic, workflows, responsibilities, boards, forms, metrics, effectivities and best practices in order to implement an effective and efficient change process from change initiation to successful implementation. Understand how to handle non conformances and how to eliminate common bottlenecks in the change process.

Outline: Course 3 Chapters
1. Change Management
2. Change Proposal & Analysis
3. Change Disposition (+ Workshop)
4. Change Boards
5. Change Implementation
6. Change and Effectivity (+ Workshop)
7. Priorities & Classifications
8. Change Management Issues
9. Eliminating Bottlenecks (+ Workshop)
10. Deviations, Waivers and Variances
11. Status Accounting and Change
12. Change Process Metrics (+ Workshop)

Course 4
CM Implementation

Description
This 16-hour course teaches the student how to implement the previously learned CM processes and methodologies into their organization. This is course four of a four course certification series.

Objectives
To understand the various methods associated with successful implementation of CM process improvements. Understand CM Plans and CM Planning and learn how to do a CM assessment. Learn how to apply CM in unique environments and life cycle phases. Attendees will also understand how to choose and implement CM related automated tools.

Outline: Course 4 Chapters
1. CM Plans and Planning
2. Verification and Audit
3. CM Professionals (+ Workshop)
4. Customers & Suppliers
5. CM & COTS
6. CM and Lean (+ Workshop)
7. Assessing CM Processes
8. CM Tools - What they Can Do For Us
9. CM Tools - Requirements for Success (+ Workshop)
10 .CM Process Improvement
11. CM Success
12. Review & Close
--Certification Exam: 2 of 2--

SAE EIA-649C Principles & Applications Certification
CMPIC Course 6

CM Industry Standard SAE EIA-649C Principles & Applications

Description

SAE EIA-649, Standard for Configuration Management, is perhaps the most widely accepted Configuration Management (CM) standard in use today. This 20 hour course will explain the logic and meaning behind the various EIA-649 principles, and offer options for implementation approaches and how best to apply the standard in various environments. This course is especially valuable to those who have EIA-649 called out as a guidance document in their contracts and/or those wanting to achieve an efficient, effective and lean enterprise.

Objectives

To understand the principles of this industry standard. This standard offers valuable advice on requirements for achieving successful CM implementations. SAE EIA-649 applies to commercial as well as government organizations.

Note:

SAE EIA-649B was revised to 649C in 2019. CMPIC is teaching this latest version.

Outline: Course 6 Chapters

1. SAE EIA-649C Rationale & Foreword
2. Table of Contents Overview
3. Section 1.0 Introduction
4. Section 2.0 Scope, 3.0 References, & 4.0 Terminology
5. Section 5.0 CM Functions and Principles
6. Section 5.1 CM Planning and Management
 - - Workshop - -
7. 5.2 Configuration Identification 1
8. 5.2 Configuration Identification 2
9. 5.2 Configuration Identification 3
 - - Workshop - -
10. 5.3 Config. Change Management 1
11. 5.3 Config. Change Management 2
 - - Workshop - -
12. 5.4 Configuration Status Accounting
13. 5.5 Configuration Verification & Audit
14. Application Notes & Annex A
 - - Exam - -

Students will receive an authorized, current, PDF copy of the entire SAE EIA-649C standard upon successful completion of this class.

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CM Assessor Certification

CMPIC Course 7

Configuration Management Assessor

Description

This advanced skills course is designed for CM professionals who are responsible for CM process improvement in their organization. The course will teach assessment techniques used to uncover deficiencies in existing processes and identify areas of improvement.

The assessment technique uses a comparative approach, assessing current practices in all major elements of CM to internationally recognized industry best practice as defined in the recently updated SAE EIA-649 Rev C Standard for Configuration Management. Students will also learn about the other major industry standards and quality initiatives such as CMMI, ITIL, MIL-HDBK-61 that may be referenced in assessments.

During this course students will use a realistic scenario to actively plan and prepare an assessment and produce the corresponding assessment report for a real world hands-on experience. The skills learned in this course will provide a sound basis for conducting future assessments that will enable attendees to move forward with CM process improvements.

Prerequisites

Attendees must have completed CMPIC Course 6, "SAE EIA-649C Principles & Applications Certification"

Intended Audience

- Individuals who are responsible for CM continuous improvement in their organization.
- Individuals who want to move their organization toward best CM practice.
- Individuals who need to assure their current CM processes meet related industry standards.

Outline: Course 7 Chapters

1. Introduction
2. Core Elements of CM
3. Assessment Planning & Preparation
4. Assessment Techniques
   -- Workshop Part 1: Set Up an Assessment--
5. Assessing "CM Planning and Management"

6. Assessing "Configuration Identification"
7. Assessing "Configuration Change Management"
8. Assessing "Configuration Status Accounting"
9. Assessing "Configuration Verification & Audit"

-- Workshop Part 2: Determine Key Findings--
10. The Assessment Report
    -- Workshop Part 3: Prepare the Assessment Report --
11. Review & Feedback
    --Exam--

Software CM: Strategies, Techniques & Tools

Description

This introductory-level course provides a broad overview of the principles and techniques of Software Configuration Management (SCM) as it applies to the entire software lifecycle. It addresses the application of SCM in a wide variety of approaches to software development and maintenance, from traditional to agile. The course illustrates the SCM strategies, techniques, and required tool capabilities that support each of the activities in the software development life cycle. The student will also gain a value-based understanding of which SCM techniques are most useful for the development approach and tool capabilities that currently exist in their company. The course concludes by providing an SCM implementation framework for planning and selecting the optimal SCM strategy and tool capabilities for both the project and organizational levels.

Prerequisites

Successful completion of CMPIC Courses 1 - 4, or CM job experience, is recommended prior to attending this class. Students should be familiar with common CM terms and software development practices prior to taking this course.

Outline: Course 8 Chapters

1. Defining Our Terms
2. Development Approaches
3. Evolution of SCM
4. Demo & Discuss: 3G/4G Capabilities
5. Core SCM Functions
6. SCM Infrastructure
7. SCM Workflow

8. Identity & Structure
9. Streams & Branches
10. Branching Strategy
11. Demo & Discuss: Branching Strategies
12. Requirements
13. Documentation
14. Reporting

15. Version Control
16. Change Control
17. Build Management
18. Demo & Discuss: Build Strategies
19. Test Management
20. Release Management
21. Dependency Management

22. Standards & Frameworks
23. SCM Planning
24. Infrastructure Evaluation
25. Demo & Discuss: SCM Strategies
26. Technology & Tool Evaluation
27. SCM Implementation
28. Summary & Feedback
--Exam--

CM Standards & Practices Update

CMPIC Course 9

In-Person: 2.5-3 Days 2.0-2.4 CEUs
Virtual: 20 Hours 2.0 CEUs

CM Standards and Practices Update

Description
This course will provide an update and overview of current Industry CM standards, industry practices, CM Tools, and overall trends. The purpose of this course is to assist in keeping your CM skills and education up to date. This course will be updated regularly to reflect current standards, methodologies, and other advances in the profession.

Prerequisites
Attendees should be familiar with Configuration Management practices as this course is not intended to teach basic CM principles and implementation practices.

Attendees must have at least 2 years experience in Configuration Management, Quality Assurance or Project Management and/or have a certification in CM prior to taking this course.

Intended Audience
This course is intended for experienced CM & related professionals with a recognized CM certification who periodically need to get updated on current trends, standards, automation, and best practices in CM.

Outline: Course 9 Chapters

1. CM Overview
2. CM History & Requirements
3. Quality Assurance and CM
   --Workshop--
4. Elements of CM
5. Configuration Identification
6. Product Structure
   --Workshop--

7. Identification Approaches
8. Baselines
9. Change Management Preparation & Disposition
10. Change Management Implementation
    --Workshop--
11. Eliminating Bottlenecks

12. Deviations, Waivers, and Variances
13. Change Management Metrics
14. Status Accounting
15. Verification & Audit
16. CM Planning
17. About Revision SAE/EIA-649C
    --Exam--

EIA-649-1A CM Requirements for Defense Contracts Certification
CMPIC Course 10

In-Person: 2.5-3 Days 2.0-2.4 CEUs
Virtual: 20 Hours 2.0 CEUs

EIA-649-1A Configuration Management Requirements for Defense Contracts

Description

The course content will address the full standard including associated DID's and DD Forms. Each student will receive a licensed PDF copy of the latest version of "SAE EIA-649-1A Configuration Management Requirements for Defense Contracts" after successful completion of this course.

SAE EIA-649-1A, Configuration Management Requirements for Defense Contracts, defines requirements for a Defense enterprise implementation of SAE EIA-649 in an acquirer/supplier contractual relationship. These requirements are intended to be tailored by the acquirer and cited in contracts, or similar agreements, with Suppliers to establish requirements for Configuration Management tasks consistent with SAE EIA-649 and each of its functions and principles. This standard applies to commercial as well as government organizations. It offers valuable advice on requirements for achieving successful CM implementations. Its authors come from various commercial and government backgrounds and are experts in the field of CM. This course will explain the logic and meaning behind the various EIA-649-1 principles, and offer options for implementation approaches and how best to tailor and apply the standard in various environments.

Prerequisites

There are no prerequisites for this course.

Outline: Course 10 Chapters

1. SAE/EIA-649-1A Rationale, Foreword, Contents Overview
2. Introduction & Section 1.0 Scope
3. 2.0 References
4. 3.0 CM Requirements & 3.1 Planning & Management
5. 3.2 Configuration Identification 1 of 2
6. 3.2 Configuration Identification 2 of 2 & Workshop
7. Configuration Change Management 1 of 2
8. Configuration Change Management 2 of 2
9. 3.4 Configuration Status Accounting
10. 3.5 Configuration Verification and Audit & Workshop
11. Table 1 Cross Reference for Principles from SAE EIA-649
12. Table 2 & 3 DIDs and DD Forms and 4.0 Notes

Annex A Tailoring Worksheet (annotated)
From MIL-HDBK-61B, Appendix B
Exam

Students will receive an authorized PDF copy of the entire SAE EIA-649-1A standard upon successful completion of this class.

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CM for Engineers, Project Managers and Quality Assurance Professionals

CMPIC Course 12   2 days, 1.6 CEUs

CM for Engineers, Project Managers and QA
for on-site sessions only

Description

Configuration Management (CM) is an integral part of Engineering, Project Management and Quality Assurance. Many engineers, project managers and QA professionals know about the "CM department" but few know of the enormous benefits CM can bring when properly integrated with engineering, project management, and quality assurance.

This 2-day course is available for onsite sessions only, for ten or more attendees. This course will provide a high level overview of the role of configuration management as it relates to overall efficiency and effectiveness. It will address the benefits of integrating CM with QA/engineering / project management, responsibilities associated with CM, and the various elements of CM such as: planning, identification, change management, status accounting, verification, and audit. Attendees will be exposed to the complete landscape of CM activities and will learn how to make CM processes work for them.

Prerequisites

There are no prerequisites for this course.

Intended Audience

This class is intended for engineers, project managers, quality assurance professionals and anyone else interested in the relationship between configuration management and engineering, project management & quality control.

Outline

Day 1
1. CM: A High Level View
2. CM History, Benefits, Requirements
3. CM and the Product Life Cycle
   Workshop 1
4. Elements of CM - Brief Overview
5. Configuration Identification
6. Change Management - Preparation & Disposition
   Workshop 2

Day 2
7. Change Management - Implementation
8. Deviations, Waivers and Variances
9. Configuration Status Accounting
   Workshop 3
10. Configuration Verification and Audit
11. CM Plans and Planning
12. CM and New Development
13. Appendix A- "So You Don't Want CM?"

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Security-Focused CM of Information Systems Certification
CMPIC Course 15

Security-Focused Configuration Management of Information Systems

Description

This class will address the role of configuration management in protecting information systems. Students who complete this course will understand the CM requirements as prescribed in NIST special publication 800-128. Course materials will come from the NIST publication and will be supplemented with application examples provided by CMPIC. The CM requirements, principles and application examples taught in this class are directly applicable to government and commercial IT systems/environments. Course consists of lecture and workshops.

Why Consider This Course?

"Organizations apply configuration management (CM) for establishing baselines and for tracking, controlling, and managing many aspects of business development and operation (e.g., products, services, manufacturing, business processes, and information technology). Organizations with a robust and effective CM process need to consider information security implications with respect to the development and operation of information systems including hardware, software, applications, and documentation. Effective CM of information systems requires the integration of the management of secure configurations into the organizational CM process or processes. For this reason, this document [NIST SP 800-128] assumes that information security is an integral part of an organization's overall CM process; however, the focus of this document [NIST SP 800-128] is on implementation of the information system security aspects of CM, and as such the term security-focused configuration management (SecCM) is used to emphasize the concentration on information security. Though both IT business application functions and security-focused practices are expected to be integrated as a single process, SecCM in this context is defined as the management and control of configurations for information systems to enable security and facilitate the management of information security risk." (Source NIST SP 800-128)

Outline: Course 15 Chapters

1. CM Requirements for IT Security: Background
2. NIST SP 800-53 CM Controls
3. NIST SP 800-53 System & Services Acquisition Controls & Workshop
4. NIST SP 800-128 Introduction
5. NIST SP 800-128 Fundamentals Part 1
6. NIST SP 800-128 Fundamentals Part 2 & Workshop
7. NIST SP 800-128 The Process Part 1
8. NIST SP 800-128 The Process Part 2 & Workshop
9. NIST SP 800-128 The Process Part 3
10. NIST SP 800-128 The Process Part 4
11. NIST SP 800-128 The Process Part 5
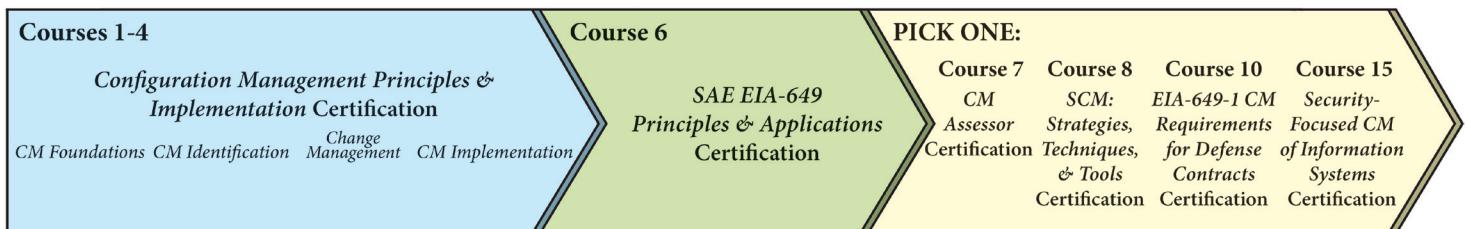12. NIST SP 800-128 Appendixes A, B, C, D, E, F

Exam

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Master's Certification Program in Enterprise Configuration Management

Awarded by CMPIC to those completing one of the tracks shown below.

Being awarded this Master's Certification in Enterprise CM signifies that you have the knowledge to explain and implement CM throughout the various functional areas within an organization.
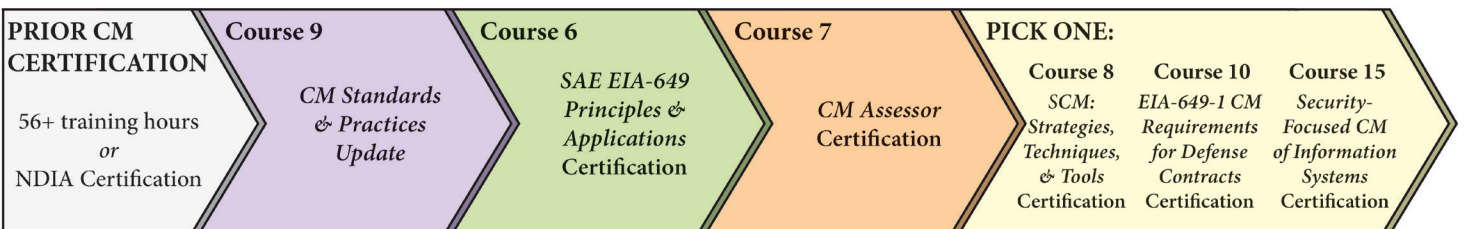
Complete ONE of the following tracks:

TRACK 1 - Master's Certification in Enterprise Configuration Management

Courses 1-4
Configuration Management Principles & Implementation Certification
CM Foundations   CM Identification   *Change Management*   CM Implementation

Course 6
SAE EIA-649 Principles & Applications Certification

PICK ONE:

Course 7	Course 8	Course 10	Course 15
CM Assessor Certification	SCM: Strategies, Techniques, & Tools Certification	EIA-649-1 CM Requirements for Defense Contracts Certification	Security-Focused CM of Information Systems Certification

OR

TRACK 2 - Master's Certification in Enterprise Configuration Management

NOTE: *TRACK 2 is for Experienced CM Professionals with a prior, non-CMPIC, CM Certification who wish to omit taking CMPIC Courses 1-4 but still receive their Master's Certification in Enterprise Configuration Management.*

PRIOR CM CERTIFICATION
56+ training hours *or* NDIA Certification

Course 9
CM Standards & Practices Update

Course 6
SAE EIA-649 Principles & Applications Certification

Course 7
CM Assessor Certification

PICK ONE:

Course 8	Course 10	Course 15
SCM: Strategies, Techniques, & Tools Certification	EIA-649-1 CM Requirements for Defense Contracts Certification	Security-Focused CM of Information Systems Certification

* **Student must have an accepted CM Certification** - **NDIA**: CDM Manager & CDM Specialist or prior CCM & CCS; *OR* **CM Certification from another CM Certification/Training Provider** including minimum of 56 hours of instructor led, in-class education/training which included exam(s) and a recognized professional Configuration Management designation. Students must provide evidence of prior recognized CM certification.

The CMPIC Master's Certification in Enterprise Configuration Management, CMPICM, signifies that the student has successfully passed a comprehensive set of coursework and has a thorough understanding of CM principles. It also signifies that the student understands various implementation techniques and options needed to deploy CM practices throughout an enterprise/organization.

Successful completion of *either* track will award the student their CMPIC Master's Certification in Enterprise Configuration Management. Please note, this is NOT a Masters degree but a certification program.

Courses may be taken in any order, at any location, and completed during any period of time. Student must successfully complete and pass all of the above courses to receive their CMPIC Master's Certification in Enterprise Configuration Management.

For more information, please visit: www.CMPIC.com/masters-enterprise-configuration-management.htm
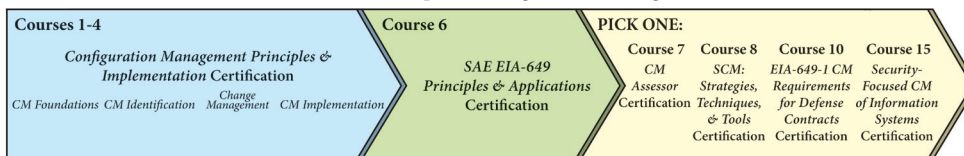
CMSME Program: CM Subject Matter Expert

Complete the following:

CMSME
CM Subject Matter Expert

TRACK 1 - Master's Certification in Enterprise Configuration Management

Courses 1-4	Course 6	PICK ONE:			
Configuration Management Principles & Implementation Certification CM Foundations CM Identification *Change Management* CM Implementation	*SAE EIA-649 Principles & Applications* Certification	**Course 7** *CM Assessor* Certification	**Course 8** *SCM: Strategies, Techniques, & Tools* Certification	**Course 10** *EIA-649-1 CM Requirements for Defense Contracts* Certification	**Course 15** *Security-Focused CM of Information Systems* Certification

5 years CM job experience +

TRACK 2 - Master's Certification in Enterprise Configuration Management

NOTE: TRACK II is for Experienced CM Professionals with a prior, non-CMPIC, CM Certification who wish to omit taking CMPIC Courses 1-4 but still receive their Master's Certification in Enterprise Configuration Management.

PRIOR CM CERTIFICATION	Course 9	Course 6	Course 7	PICK ONE:		
56+ training hours *or* NDIA Certification	*CM Standards & Practices Update*	*SAE EIA-649 Principles & Applications* Certification	*CM Assessor* Certification	**Course 8** *SCM: Strategies, Techniques, & Tools* Certification	**Course 10** *EIA-649-1 CM Requirements for Defense Contracts* Certification	**Course 15** *Security-Focused CM of Information Systems* Certification

* **Student must have an accepted CM Certification** - NDIA: CDM Manager & CDM Specialist or prior CCM & CCS; **OR** CM Certification from another CM **Certification/Training Provider** including minimum of 56 hours of instructor led, in-class education/training which included exam(s) and a recognized professional Configuration Management designation. Students must provide evidence of prior recognized CM certification.
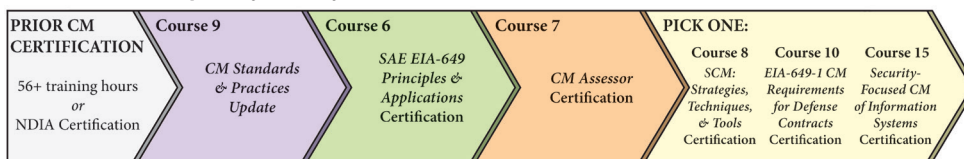
Complete one:

+ - Attend a CM Trends event
or
- Take Course 9: CM Standards & Practices Update
or
- Take any CMPIC class not previously taken

Successful completion of the "CMSME" program signifies that you have met the program requirements of learning the many Configuration Management (CM) principles and techniques required to implement CM in various functional areas within an organization. Being an active member in this program demonstrates your commitment to remaining current in all aspects of Configuration Management and an advanced achievement in continuous CM education.

REQUIREMENTS - You must have:
- Five years direct experience working with configuration management processes
- CMPIC Master's Certification in Enterprise Configuration Management
- Completed one of the below maintenance requirements.

MAINTENANCE REQUIREMENTS:
◊ Attend a CM Trends event, *or*
◊ Attend Course 9, "Configuration Management Standards & Practices Update", *or*
◊ Attend any CMPIC course not previously completed.

CMSME is an ongoing program for CM Professionals. To remain in this program you must continue to complete at least one of the above Maintenance Requirements every three years.

For more information, or to apply to this program, please visit: www.CMPIC.com/CMSME.htm

CM Trends Seminar, Workshops And Training Annual Event

You're Invited!

CM Trends 2021
Seminar, Workshops, And Training
in Salt Lake City, Utah USA

CM Trends is a premier forum for sharing new advances and practices in configuration management (CM). This event showcases the latest trends, industry standards, and corporate experience in configuration management. CM Trends brings together leading configuration management professionals from commercial and government industries. By bringing people together, connecting and inspiring them, we can create the potential for positive change.

Details online at www.CMPIC.com

August 23 - 25, 2021: 2.5-day Seminar Schedule Overview
Monday 8:00AM - 5:00PM: Seminar & Workshop. Meet with PLM/CM tool vendors.
Tuesday 8:00AM - 5:00PM: Seminar & Workshop. Meet with PLM/CM tool vendors.
Wednesday 8:00AM - 11:30AM: Seminar & Workshop.

August 25 - 27, 2021: 2.5-day Course Schedule Overview
Wednesday 1:00PM - 5:00PM: Attend one of three courses offered
Thursday 8:00AM - 5:00PM: Continue course
Friday 8:00AM - 5:00PM: Complete course

POSTPONED

CMPIC
Configuration Management
Process Improvement Center

Providing High Quality, Cost-Effective, and the Most Up-to-Date Configuration Management Training & Certification

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