

# 2020 Training Catalog

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(888) 975-1119

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# Instructor Led Courses

|  |         |
|--|---------|
| <a href="#"><u>Introduction to EVM</u></a>                               | 2 Days  |
| <a href="#"><u>Principles of EVM</u></a>                                 | 1 Day   |
| <a href="#"><u>The DCMA 14-Point Schedule Assessment</u></a>             | 1/2 Day |
| <a href="#"><u>EVM EIA-748 and The Validation Process</u></a>            | 1/2 Day |
| <a href="#"><u>Earned Value Analysis Using Empower™</u></a>              | 1/2 Day |
| <a href="#"><u>Earned Value Analysis Using EVMS forProject™</u></a>      | 1/2 Day |
| <a href="#"><u>Earned Value Analysis Using wInsight™</u></a>             | 1/2 Day |
| <a href="#"><u>Variance Analysis Reporting (VAR) Using Empower™</u></a>  | 1/2 Day |
| <a href="#"><u>Variance Analysis Reporting (VAR) Using wInsight™</u></a> | 1/2 Day |

# Introduction to Earned Value Management (EVM)

## LOGISTICS

**Duration:** 2 Days

**Delivery:** In person, instructor led

PC's *not* required

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course introduces the concepts underlying Earned Value Management (EVM), including:

- The problems EVM was created to solve
- EVM Terminology and data elements
- The key EVM Processes (Organizing, Planning, Scheduling & Budgeting, Accounting, Managerial Analysis & Reporting, Revisions)

## TARGET AUDIENCE

Professionals in organizations who currently, or will be utilizing an EVM System, including:

- Project Managers
- Integrated Product Team (IPT) Leads
- Program Schedulers
- Control Account Managers (CAMs)
- Program Controls / EV Analysts
- Program Financial Analysts
- Executives who oversee Program Managers may also find this course of interest.

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Discuss why EVM was created, and how effective EVM practice benefits an organization
- Recognize the basic principles and terms used in EVM
- Understand the fundamental processes and key roles and responsibilities involved in EVM
- Participate more meaningfully in advanced EVM system coursework

# Principles of Earned Value Management (EVM)

## LOGISTICS

**Duration:** 1 Day

**Delivery:** In person, instructor led

PC's *not* required

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course introduces students to the basic components of managing projects using Earned Value Management principles.

## TARGET AUDIENCE

Anyone who is interested in understanding what EVM is and how it is used to measure program performance. This is an introductory course, and it is not intended for those who need to implement or operate an EIA-748 compliant system.

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Recognize the basic principles and terms used in EVM
- Understand the components of a Performance Measurement Baseline (PMB), including critical path schedule and time-phased resource plan
- Perform basic EVM performance calculations and understand how these metrics are used to manage a program

# The DCMA 14-Point Schedule Assessment

## LOGISTICS

**Duration:** 1 Day

**Delivery:** In person, instructor led

PC's *not* required

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course introduces students to the DCMA 14-Point Schedule Analysis metrics, including an explanation of each of the metrics and how it applies to scheduling best practices. Students will be shown real examples of schedule problems identified by the metrics, along with options on how to correct them. Two versions of this course are offered - one for Microsoft Project, and the other for Oracle Primavera.

## TARGET AUDIENCE

Schedulers interested in better understanding the DCMA 14-Point Schedule Assessment, or who are looking for ways of improving schedule integrity using industry best-practices.

## LEARNING OBJECTIVES

Upon successful completion of this course, students will have a thorough understanding of:

- The scope and objectives of the DCMA 14-Point schedule assessment methodology
- The basic counts used to derive the metrics
- The 14 DCMA metrics, including how the metric is computed, applicable thresholds and relevant scheduling best-practices
- How to identify and correct schedule problems identified by the 14-Point analysis

# The EVM EIA-748 Validation Process

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's *not* required

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course answers common questions related to how to achieve and maintain validation of an EVM System.

## TARGET AUDIENCE

Stakeholders who will be involved in supporting the DCMA or Cognizant Federal Agency (CFA)\* Compliance Review, including Program Managers, Finance Managers and Senior Management.

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Identify which programs in their organization must comply with the EIA-748 guidelines
- Identify the areas of their organization involved in establishing and maintaining a compliant EVM System
- Identify high-level goals for preparing their organization for a Compliance Review

\*Cognizant Federal Agencies include DCMA, NASA, Department of Energy, FAA, DHS, NSF, NRO or other agencies performing validation review under FAR 52.234-2.

# Earned Value Analysis Using Encore Analytics Empower™

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's are optional for hands-on participation and student exercises.

**Class Size:** Up to 15 students

**Prerequisites:** None

## OVERVIEW

This course is an introduction to Earned Value Analysis Using Encore Analytics Empower™. It covers how to access the tool and use the various features and functions within it to support analysis of program performance.

## TARGET AUDIENCE

Anyone responsible for analyzing program performance, including:

- Control Account Managers (CAs)
- Program Managers
- Integrated Product Team (IPT) Leads
- Program Controls / EV Analysts
- Program Financial Analysts

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Navigate the Empower™ software system
- Understand the difference between data analysis and variance analysis
- Be proficient with the commonly used cost and schedule historical performance metrics (i.e. CPI, SPI)
- Develop Independent Estimates at Completion (IEAC) using performance metrics
- Be conversant with the DCMA Tripwire, and the new DCMA data-driven validation metrics
- Use graphical trend analysis to provide perspective into likely future performance

# Earned Value Analysis Using EVMS forProject™

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's are optional for hands-on participation and student exercises.

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course is an introduction to Earned Value Analysis Using forProject™. It covers how to access the tool and use the various features and functions within it to support analysis of program performance.

## TARGET AUDIENCE

Anyone responsible for analyzing program performance, including:

- Control Account Managers (CAs)
- Program Managers
- Integrated Product Team (IPT) Leads
- Program Controls / EV Analysts
- Program Financial Analysts

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Navigate the EVMS forProject™ software system
- Understand the difference between data analysis and variance analysis
- Be proficient with the commonly used cost and schedule historical performance metrics (i.e. CPI, SPI)
- Develop Independent Estimates at Completion (IEAC) using performance metrics
- Be conversant with the DCMA Tripwire, and the new DCMA data-driven validation metrics
- Use graphical trend analysis to provide perspective into likely future performance



# Earned Value Analysis Using wInsight™

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's are optional for hands-on participation and student exercises.

**Class Size:** Up to 15 students

**Prerequisites:**  
None

## OVERVIEW

This course is an introduction to Earned Value Analysis Using wInsight™. It covers how to access the tool and use the various features and functions within it to support analysis of program performance.

## TARGET AUDIENCE

Anyone responsible for analyzing program performance, including:

- Control Account Managers (CAs)
- Program Managers
- Integrated Product Team (IPT) Leads
- Program Controls / EV Analysts
- Program Financial Analysts

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Navigate the wInsight™ software system
- Understand the difference between data analysis and variance analysis
- Be proficient with the commonly used cost and schedule historical performance metrics (i.e. CPI, SPI)
- Develop Independent Estimates at Completion (IEAC) using performance metrics
- Be conversant with the DCMA Tripwire, and the new DCMA data-driven validation metrics
- Use graphical trend analysis to provide perspective into likely future performance

# Variance Analysis Reporting (VAR) Using Empower™

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's are optional for hands-on participation and student exercises.

**Class Size:** Up to 15 students

**Prerequisites:** None

## OVERVIEW

This course is designed to help CAMs analyze and understand earned value performance metrics with a goal of writing a clear, cohesive Variance Analysis Report (VAR). VARs are exception reports that alert program stakeholders to cost and schedule variances that exceed predetermined thresholds. On many government contracts, VARs are required to be delivered to the customer in the Integrated Program Management Report (IPMR) Format 5.

## TARGET AUDIENCE

Control Account Managers who are responsible for producing Variance Analysis Reports. Others who may participate in the process, including:

- Program Managers
- Integrated Product Team (IPT) Leads
- Program Controls / EV Analysts
- Program Financial Analysts

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- List the inputs that result in Earned Value (EV) metrics
- List and describe the EVM metrics used to create VARs
- Use Empower™ to access data views used in VARs
- Understand what should be included within a VAR
- Write a VAR that is clear, concise and coherent
- Submit, review and approve variance analyses

# Variance Analysis Reporting (VAR) Using wlnsight™

## LOGISTICS

**Duration:** ½ Day

**Delivery:** In person, instructor led

PC's are optional for hands-on participation and student exercises.

**Class Size:** Up to 15 students

**Prerequisites:** None

## OVERVIEW

This course is designed to help CAMs analyze and understand earned value performance metrics with a goal of writing a clear, cohesive Variance Analysis Report (VAR). VARs are exception reports that alert program stakeholders to cost and schedule variances that exceed predetermined thresholds. On many government contracts, VARs are required to be delivered to the customer in the Integrated Program Management Report (IPMR) Format 5.

## TARGET AUDIENCE

Control Account Managers who are responsible for producing Variance Analysis Reports. Others who may participate in the process, including:

- Program Managers
- Integrated Product Team (IPT) Leads
- Program Controls / EV Analysts
- Program Financial Analysts

## LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- List the inputs that result in Earned Value (EV) metrics
- List and describe the EVM metrics used to create VARs
- Use wlnsight™ to access data views used in VARs
- Understand what should be included within a VAR
- Write a VAR that is clear, concise and coherent
- Submit, review and approve variance analyses