

Standard PLM Certificate Program

Session Descriptions

Sessions 1 through 5 comprise the *Core Certificate of PLM Leadership*. Adding Sessions 6 through 9 to the curriculum completes the *Standard Certificate of PLM Leadership*.

Session 1—PLM: Key Concepts & Learnings

Duration: 1 day

Prerequisites:

- None

Intent: The scope of this one-day session includes the presentation of today's view and vision of the global PLM market and technologies. The overall intent of the session is to provide a broad overview of the PLM market, including trends, system architectures, and critical elements of success. This session will include presentations, discussions, and a set of interactive exercises.

Session Outline:

- Introduction
- Elements of a PLM Enabling Platform
- The Expanding Reach of PLM
- Today's Trends & Challenges
- An Introduction to the PLM Commercial Landscape
- PLM Benefits
- PLM Best Practices

Session 2—PLM Benefits & Potential Value

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings

Intent: This half-day session reviews industry metrics used to measure and monitor the benefits of PLM implementations. Areas of potential PLM benefits will be presented by discussing results achieved by various companies that have implemented PLM. These case studies are taken from published literature and CIMdata's researched case studies. The focus of the session will be to describe how metrics should be used to help define a company's PLM strategy, define the company's PLM roadmap, select the most appropriate PLM enabling solutions, and much more.

Session Outline

- Potential Benefits of PLM
- Defining & Measuring the Costs of PLM
- Measuring the Value of PLM
- Introduction to a Benefits Appraisal Methodology
- Using Metrics to Steer a PLM Program
- Selected PLM Benefits Case Studies

Session 3—PLM Strategy & Solution Definition

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings
- Session 2: PLM Benefits & Potential Value

Intent: This half-day session provides a set of detailed guidelines for PLM strategy development and solution definition. When properly followed, these guidelines will help an organization reduce the time it takes to define and create a PLM solution strategy.

Session Outline:

- Introduction to PLM Strategy Development
- High-Level Planning
- Defining a Strategy & Tactics
- Defining Business Requirements
- Implementation Strategies

Session 4—PLM Solution Evaluation & Selection

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings
- Session 3: PLM Strategy & Solution Definition

Intent: This session provides a set of detailed guidelines for evaluating available solutions and selecting appropriate solutions to support a company's PLM strategy. When properly followed, these guidelines will help an organization reduce the time it takes to select the right solution for their organization.

Session Outline:

- Evaluating & Selecting PLM Solutions
- Developing True Business Requirements
- Developing Technical Requirements
- Selecting the Most Appropriate Solutions

Session 5—PLM Implementation, Monitoring & Continuous Improvement

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings
- Session 2: PLM Benefits & Potential Value
- Session 3: Strategy & Solution Definition

Intent: This half-day session provides a set of detailed guidelines for implementing and evolving a PLM environment. When properly followed, these best practices will help an organization reduce the time it takes to identify and quantify associated risks and better manage and control project costs from the project concept phase through implementation and organizational adoption.

Session Outline:

- Why projects fail?
- Gaining Leadership Commitment
- Harnessing Project Management Skills
- Implementation Planning & Execution
- Communicate, Communicate, Communicate...
- Managing Expectations
- Assessing the Implementation
- Sustaining Your Program

Session 6—PLM Process Development & Testing

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings
- Session 2: PLM Benefits & Potential Value
- Session 3: Strategy & Solution Definition
- Session 4: PLM Solution Evaluation & Selection
- Session 5: Implementation, Monitoring & Continuous Improvement

Intent: This half-day session provides an understanding how to best define, implement, and continuously improve PLM enabled processes. The session will also present best practices for testing the process enabling PLM solutions.

Session Outline:

- Developing Business Processes
- Documenting Business Processes
- Sample Business Process Definition
- System Testing & Validation
- Process Ownership & Continuous Improvement

Session 7—Integrating PLM within the Enterprise

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings
- Session 2: PLM Benefits & Potential Value
- Session 3: Strategy & Solution Definition
- Session 5: Implementation, Monitoring & Continuous Improvement

Intent: This half-day session focuses on PLM’s role within an enterprise’s overall information technology architecture (both process and data) and how to best approach the integration of various PLM solutions (e.g., via the implementation of a service oriented architecture), especially PDM technologies, with other enterprise IT systems, e.g., ERP, CRM, etc.

Session Outline:

- Introduction
- The Typical Enterprise IT Landscape
- PLM’s Role in an Enterprise IT Landscape
- Integration Approaches that Work
- Other Issues to Consider

Session 8—Expanding PLM Across the Value Chain

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings

Intent: This half-day session covers the next steps in implementing PLM inside and outside the company, to its supplier and partner community, providing access to its customers, to other functional areas outside of engineering and manufacturing operations, and distribute operations across the broader enterprise.

Session Outline:

- Defining the Value Chain
- Current Areas of Expansion
- Essential Issues for Each Area
- New Technologies Impacting PLM’s Expansion
- Priorities & Steps for Expansion

Session 9—Configuration Management’s Role in PLM

Duration: ½ day

Prerequisites:

- Session 1: PLM: Key Concepts & Learnings

Intent: This half-day session defines configuration management and how PLM can be used to enable it. The session provides an understanding of the various PLM-related configuration management elements (e.g., configuration items, options & variants, change management, and effectivity) and how a PLM solution can be used to support them. The session also reviews of a set of configuration management best practices and industry examples.

Session Outline:

- The History of Configuration Management
- Why Configuration Management Matters
- Configuration Management Defined
- Processes & Related Requirements
- Best Practices Guidelines
- Industry Example - CMII