Product Life Cycle Management

- 2 DAYS -

Product Lifecycle Management Course Description and PurposePLM (Product Lifecycle Management (PLM) is the approach that enables the management of every phase the product, from the initial idea that leads to its creation to the completion of its lifecycle. The systems that consolidate all information generated throughout this process in a way that ensures continuity are called PLM systems.

The Product Life Cycle Management training covers general PLM concepts, the impact of PLM on businesses, and product-focused business management approach. Additionally, to address common needs of participants using different PLM systems, it introduces standard features and concepts shared across all systems. These concepts are grouped under metadata, product, process, project, change and requirements.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

Introduction
- PDM, PLM, ALM, SysLM, DEPLM concepts
- Development and history of PLM
- Impact of PLM on businesses
- Product management-oriented business management
- ERP & PLM evaluation

PLM Concepts
- Meta Management
  o Searching for information
  o Object lifecycles and state protocols
  o Object revision management
  o Roles & Authorities
  o Integrations
  o Document management
  o CAD document management
  o CAD visualization
  o Audit Trail

- Process Management
  o Workflows
  o Workflow / PLM object context

- Project Management
  o Project Plans
  o Project Tasks
  o Checklists
  o Checklist Types
  o Project resource / cost management
  o Relationship of projects with other PLM concepts

- Product Management
  o "Part" as PLM object
  o "Part" and "Document" relationship
  o BOM management
  o "Product" as PLM object

- Change Management
  o Change process and workflows
  o Relationship between CM2 and PLM change processes

- Requirements Management
  o Specifications
  o Requirements
  o ReqIF and ReqMAN applications

Industrial IoT
- PLM as an IoT platform
  o Digital Twin
  o Digital Thread

- Systems Engineering
  o MBSE - Model-based systems engineering
  o PLM as an MBSE platform