



API FUNDAMENTALS OF SOLIDWORKS PDM

PREREQUISITES	LENGTH	DESCRIPTION
<ul style="list-style-type: none"> ■ The Administering SOLIDWORKS PDM course, basic experience with the SOLIDWORKS PDM software, experience with the Windows(R) operating system, and knowledge of a programming language, preferably Visual Basic™ 2005 or later. <p>► CONNECTING TO A VAULT</p> <ul style="list-style-type: none"> ■ COM Programming ■ Application Types ■ Namespaces ■ The IEdmVault Interface ■ DebuggerFeedback ■ Logging into a Vault ■ Handling HRESULT Return Codes ■ SOLIDWORKS PDM API Help ■ Interface Versioning ■ Exercise I: Connecting to a Vault <p>► FILES, FOLDERS, ITEMS & REFERENCES</p> <ul style="list-style-type: none"> ■ The IEdmObject Interface ■ The IEdmFile Interface ■ The IEdmFolder Interface ■ The IEdmPos Interface ■ Case Study:File Traversal ■ Case Study:Folder Traversal ■ File References ■ The I Edm Batch-Listing Interface ■ The IEdmClear-LocalCache Interface ■ Case Study:Reference Tree Traversal ■ Exercise 2: Traverse Files and Folders <p>► USERS AND GROUPS</p> <ul style="list-style-type: none"> ■ The IEdmUser Interface ■ Exercise 3: Find Users 	<p>2 Days</p>	<ul style="list-style-type: none"> ■ This course teaches programmers how to use the SOLIDWORKS PDM API (Application Programming Interface) to automate and customize SOLIDWORKS PDM. The focus of this course is on the fundamental skills and concepts needed to begin using the API to develop applications that can interact with SOLIDWORKS PDM. <p>► CARD VARIABLES, VERSIONS & REVISIONS</p> <ul style="list-style-type: none"> ■ Card Variables ■ File Versions and Revisions ■ The IEdmDictionary Interface ■ Exercise 4: Find Cards where a Variable is Used ■ Exercise 5: Find Revisions That Use a Component <p>► ADD-IN APPLICATIONS</p> <ul style="list-style-type: none"> ■ SOLIDWORKS PDM Add-Ins ■ The IEdmAddIn Interface ■ Case Study: Creating an Add-In ■ COM Registration ■ Debugging a DLL ■ Case Study:Changing Card Variable Values ■ Case Study:Generating Serial Numbers ■ Installing an Add-In ■ Exercise 6: State Change <p>► TASK ADD-IN APPLICATIONS</p> <ul style="list-style-type: none"> ■ SOLIDWORKS PDM Task Add-Ins ■ Case Study:Simple Task Add-In ■ Case Study:Check Number of Days in State ■ The IEdmSearch Interface ■ The IEdmWorkflowMgr Interface ■ The IEdmWorkflow Interface ■ Exercise 7: Scheduled Tasks