



WBEM Solutions, Inc.

Course Catalog

WBEM Solutions, Inc. Course Catalog
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Course ID: CIM101
Title: Modeling using CIM
Duration: 3 Days
Type: Interactive

Description

The Modeling using CIM course provides an introduction to the basic concepts of the Common Information Model (CIM). Prior knowledge of CIM is not required. Students will learn the significance of using an object-oriented data model to manage the enterprise. Students will also be exposed to techniques for modeling a product using CIM. Hands-on lab exercises are used to reinforce lecture topics and help the student to better understand the semantics of the CIM data model. Additional exercises demonstrate the techniques for modeling different types of products using CIM.

Audience

The intended audience for this course include software engineers, architects, test engineers, technical writers and technical managers who desire to understand the concepts of modeling using CIM.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- Java™ Runtime environment

Course Content

Day 1

Course Overview

- **Introduction**
- **Objectives and Agenda**
- **Management Problems**
- **Standards Solution**

CIM

- **Specification**
- **Meta Schema**
- **Lab**

Day 2

CIM Schema

- **Core Model**
- **Common Model**
- **Modeling in CIM**

Day 3

Modeling Exercises

- **Asset Management**
- **Systems**
- **Devices**
- **Networks**
- **Applications**
- **Users**

Course ID: WBEM101
Title: Understanding CIM and WBEM
Duration: 3 Days
Type: Interactive

Description

The Understanding CIM and WBEM course provides an introduction to the basic concepts of the Common Information Model (CIM) and Web Based Enterprise Management (WBEM) technologies. Prior knowledge of CIM and WBEM is not required. Students will learn the significance of using an object-oriented data model to manage the enterprise. Students will also be exposed to techniques for modeling a product using CIM. Hands-on lab exercises are used to reinforce lecture topics and help the student to better understand the semantics of the CIM data model. NOTE: These lab exercises do not involve any programming.

Audience

The intended audience for this course include software engineers, architects, test engineers, technical writers and engineering managers who desire to understand the concepts for developing enterprise management products that use CIM and WBEM.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- Java™ Runtime environment

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

Day 3

WBEM

- xmlCIM
- CIM-XML
- Discovery
- Development Process
- Implementations
- Lab

Day 2

CIM Schema

- Core Model
- Common Model

WBEM

- Overview
- Architecture
- Client Operations
- Lab

Course ID: WBEM201
Title: WBEM Developer Course using Java™
Duration: 4 Days
Type: Interactive

Description

The WBEM Developer Course using Java provides an introduction to the basic concepts for developing enterprise management products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is not required. Hands-on lab exercises are used to guide the student in developing basic Java WBEM client applications and Java WBEM instrumentation..

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the basic concepts for developing WBEM applications and instrumentation.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

Day 2

CIM Schema

- Core Model
- Common Model

WBEM

- Overview
- Architecture
- Client Operations
- Lab

Day 3

WBEM

- xmiCIM
- CIM-XML
- Discovery

Provider Labs

- Instance Provider

Day 4

Provider Labs

- Association Provider

Client Labs

- Class Manipulation
- Instance Manipulation
- Association Traversal

Course ID: WBEM202 (available Q2/2005)
Title: WBEM Developer Course using CMPI
Duration: 4 Days
Type: Interactive

Description

The WBEM Developer Course using CMPI provides an introduction to the basic concepts for developing enterprise management products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is not required. Hands-on lab exercises are used to guide the student in developing basic Java WBEM client applications and Common Management Provider Interface (CMPI) WBEM instrumentation.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the basic concepts for developing Java WBEM applications and CMPI WBEM instrumentation.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- C Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

Day 2

CIM Schema

- Core Model
- Common Model

WBEM

- Overview
- Architecture
- Client Operations
- Lab

Day 3

WBEM

- xmiCIM
- CIM-XML
- Discovery

Provider Labs

- Instance Provider

Day 4

Provider Labs

- Association Provider

Client Labs

- Class Manipulation
- Instance Manipulation
- Association Traversal

Course ID: WBEM301
Title: Advanced WBEM Client Developer Course using Java™
Duration: 3 Days
Type: Interactive

Description

The Advanced WBEM Client Developer Course using Java provides in depth instruction of advanced concepts for developing enterprise management products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Java client WBEM programming interfaces and guide the student in developing commercial quality Java WBEM client applications.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality WBEM instrumentation written in Java.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda

WBEM

- Architecture
- Protocols

Java WBEM API

Day 3

Client Labs

- Association Traversal
- Executing Queries
- Methods
- Life Cycle Indications
- Process Indications
- Batch

Day 2

Client Labs

- SLP
 - Profile Discovery
- Class Manipulation
- Instance Manipulation

Course ID: WBEM302
Title: Advanced WBEM Provider Developer Course using Java™
Duration: 3 Days
Type: Interactive

Description

The Advanced WBEM Provider Developer Course using Java provides in depth instruction of advanced concepts for developing enterprise management products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Java WBEM programming interfaces and guide the student in developing commercial quality Java WBEM client applications and instrumentation.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality WBEM applications and instrumentation written in Java.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- **Introduction**
- **Objectives and Agenda**

WBEM

- **Architecture**
- **Discovery**

Java WBEM API

Day 2

Provider Labs

- **Instance Provider**
- **Association Provider**

Day 3

Provider Labs

- **Methods**
- **Life Cycle Indications**
- **Process Indications**

Course ID: WBEM303 (available in Q2/2005)
Title: Advanced WBEM Provider Developer Course using CMPI
Duration: 3 Days
Type: Interactive

Description

The Advanced WBEM Provider Developer Course using CMPI provides in depth instruction of advanced concepts for developing enterprise management products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Common Management Provider Interface (CMPI) programming interfaces. These lab exercises guide the student in developing commercial quality CMPI WBEM instrumentation.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality CMPI WBEM instrumentation.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- C Development environment and techniques

Course Content

Day 1

Course Overview

- **Introduction**
- **Objectives and Agenda**

WBEM

- **Architecture**
- **Discovery**

CMPI API

Day 2

Provider Labs

- **Instance Provider**
- **Association Provider**

Day 3

Provider Labs

- **Methods**
- **Life Cycle Indications**
- **Process Indications**

Course ID: SMI101
Title: Understanding SMI
Duration: 3 Days
Type: Interactive

Description

The Understanding SMI course provides an introduction to the basic concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM, WBEM and the SMI Specification (SMI-S) is not required. Hands-on lab exercises are used to reinforce lecture topics and help the student to better understand the requirements of SMI-S and the semantics of the CIM data model. NOTE: These lab exercises do not involve any programming.

Audience

The intended audience for this course include software engineers, architects, test engineers, technical writers and engineering managers who desire to understand the concepts for developing SMI products that use CIM and WBEM.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

Day 2

CIM Schema

- Core Model
- Common Model

WBEM

- Overview
- Architecture
- Client Operations
- Lab

Day 3

WBEM

- xmlCIM
- CIM-XML
- Discovery

SMI

- Specification
- Profiles
- Conformance Testing

Course ID: SMI201
Title: SMI Developer Course using Java™
Duration: 4 Days
Type: Interactive

Description

The SMI Developer Course using Java provides an introduction to the basic concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM, WBEM and the SMI Specification (SMI-S) is not required. Hands-on lab exercises are used to guide the student in developing basic Java WBEM client applications and instrumentation for SMI products.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality Java WBEM applications and instrumentation for SMI products.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

CIM Schema

- Core Model
- Common Model

Day 2

WBEM

- Overview
- Architecture
- Client Operations
- Lab
- xmlCIM
- CIM-XML
- Discovery

Day 3

SMI

- Specification
- Profiles
- Subprofiles
- Packages
- Recipes
- Conformance Testing

Provider Labs

- Instance Provider
- Associators Provider

Day 4

Client Labs

- Class Manipulation
- Instance Manipulation
- Association Traversal

Course ID: SMI202 (available Q2/2005)
Title: SMI Developer Course using CMPI
Duration: 4 Days
Type: Interactive

Description

The SMI Developer Course using CMPI provides an introduction to the basic concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM, WBEM and the SMI Specification (SMI-S) is not required. Hands-on lab exercises are used to guide the student in developing basic Java WBEM client applications and Common Management Provider Interface (CMPI) WBEM instrumentation for SMI products.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality Java WBEM applications and CMPI WBEM instrumentation for SMI products.

Prerequisites

Students should have a working knowledge of the following:

- Object Oriented techniques
- C Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda
- Management Problems
- Standards Solution

CIM

- Specification
- Meta Schema
- Lab

CIM Schema

- Core Model
- Common Model

Day 2

WBEM

- Overview
- Architecture
- Client Operations
- xmlCIM
- CIM-XML
- Discovery

Day 3

SMI

- Specification
- Profiles
- Subprofiles
- Packages
- Recipes
- Conformance Testing

Provider Labs

- Instance Provider
- Associators Provider

Day 4

Client Labs

- Class Manipulation
- Instance Manipulation
- Association Traversal

Course ID: SMI301
Title: Advanced SMI Client Developer Course using Java™
Duration: 3 Days
Type: Interactive

Description

The Advanced SMI Client Developer Course using Java provides in depth instruction of advanced concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Java Client WBEM programming interfaces and guide the student in developing commercial quality Java WBEM client applications for SMI products.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality Java WBEM applications for SMI products.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda

SMI

- Specification
- Profiles

Day 2

SMI

- Subprofiles
- Packages
- Recipes
- Conformance Testing

Java WBEM API

Day 3

Client Labs

- SLP Discovery
- Class Manipulation
- Instance Manipulation
- Association Traversal
- Methods
- Indications

Course ID: SMI302
Title: Advanced SMI Provider Developer Course using Java™
Duration: 3 Days
Type: Interactive

Description

The Advanced SMI Provider Developer Course using Java provides in depth instruction of advanced concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Java Provider WBEM programming interfaces and guide the student in developing commercial quality Java WBEM instrumentation for SMI products.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality Java WBEM instrumentation for SMI products.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- Java™ Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda

SMI

- Specification
- Profiles

Day 2

SMI

- Subprofiles
- Packages
- Recipes
- Conformance Testing

Java WBEM API

Day 3

Provider Labs

- Instance Provider
- Associators Provider
- Method Provider
- Indication Provider

Course ID: SMI303 (available Q2/2005)
Title: Advanced SMI Provider Developer Course using CMPI
Duration: 3 Days
Type: Interactive

Description

The Advanced SMI Developer Course using CMPI provides in depth instruction of advanced concepts for developing Storage Management Initiative (SMI) products that use the Common Information Model (CIM) and Web Based Enterprise Management (WBEM). Prior knowledge of CIM and WBEM is a prerequisite. Hands-on lab exercises are used to teach the student the Common Management Provider Interface (CMPI) programming interfaces. These lab exercises guide the student in developing commercial quality CMPI instrumentation for SMI products.

Audience

The intended audience for this course include software engineers, architects and test engineers who desire to understand the advanced concepts needed to develop commercial quality CMPI instrumentation for SMI products.

Prerequisites

Students should have a working knowledge of the following:

- CIM and WBEM
- C Development environment and techniques

Course Content

Day 1

Course Overview

- Introduction
- Objectives and Agenda

SMI

- Specification
- Profiles

Day 2

SMI

- Subprofiles
- Packages
- Recipes
- Conformance Testing

CMPI API

Day 3

Provider Labs

- Instance Provider
- Associators Provider
- Method Provider
- Indication Provider