

edcom Schulungskatalog

Inhaltsverzeichnis:

CF20GV8.3: DB2 9 Administration Workshop for Linux	2
CF23GV8.3: DB2 9 Administration Workshop for Windows	3
TS6101: IBM Tivoli Storage Manager 6.1 Implementierung und Administration: Teil 1	4
TS6201: IBM Tivoli Storage Manager 6.1 Implementierung und Administration: Teil 2	5
DEV475: Mastering Object-Oriented Analysis and Design using UML	6
DEV900: Fundamentals of Rational Rose	7
DEV901: Bundle: Mastering Object-Oriented Analysis and Design using UML and Fundamentals of Rational Rose	8
QS171: IBM Rational Synergy Developer	9
QS176: IBM Rational Synergy Developer Advanced	10
QS181: IBM Rational Synergy Build Manager	11
QS186: IBM Rational Synergy Administration	12
QS191: IBM Rational Synergy Process Tailoring V7.1	13
RS2040: Essentials of IBM Rational ClearQuest	14
RS303U: Essentials of Configuration Management with IBM Rational ClearCase Unix	15
RS303W: Essentials of Configuration Management with IBM Rational ClearCase Windows	16
RS404W: Essentials of Configuration Management with IBM Rational ClearCase UCM Windows	17
RS5040: Essentials of IBM Rational ClearCase for Windows	18
RS5120: Essentials of IBM Rational ClearCase for UNIX	19
RS5240: Essentials of IBM Rational ClearCase UCM for Windows	20
RS6020: Mastering IBM Rational ClearCase Administration for Windows	21
RS6120: Mastering IBM Rational ClearCase Administration for Unix	22
RS6330: Mastering IBM Rational ClearQuest Administration	23
RS641: Mastering IBM Rational ClearQuest MultiSite Administration	24
RS725: Configuring Projects in IBM Rational Team Concert V3.0	25
RS840: Developing Software with IBM Rational Team Concert V3.0	26
SW244: Introduction to Java Using IBM Rational Application Developer V6	27
SW284: Servlet and JSP Development with IBM Rational Application Developer V6	28
SW287: Developing Web Applications with IBM Rational Application Developer V6	29
QN113: IBM Rational DOORS Practitioner V9.3	30
QN118: Customizing IBM Rational DOORS Using DXL V9.3	31
QN123: IBM Rational DOORS Information Architect V9.3	32
QN131: Principles of Requirements Management Foundation	33
QN135: Principles of Requirements Management Practitioner	34
QN163: IBM Rational DOORS Foundation V9.3	35
QN220: Requirements Writing Techniques	36
RR202D: Essentials of IBM Rational RequisitePro Client for Web	37
RR3320: Essentials of IBM Rational RequisitePro	38
RR351: Essentials of IBM Rational Requirements Composer V2.0	39
RR617: Mastering Requirements Management with Use Cases	40



Typ: DB2
Hersteller: IBM DB2
Produkt & Version: DB2 9



CF20GV8.3: DB2 9 Administration Workshop for Linux

Dauer: 4,0 Tag(e)

Zielsetzung:

In diesem Kurs lernen die Teilnehmer die Administration der Datenbank DB2 9 unter Linux. Sie erstellen Instanzen und Datenbanken, Verwalten den Platz auf der Festplatte, erstellen Datenbank-Sicherungen und Restaurieren die Daten. Die neuen Funktionen der DB2 9 im Bereich Partitionierung, Zeilenkomprimierung und pureXML werden vorgestellt und erläutert.

Zielgruppe:

Administratoren

Inhalte:

Administration eines DB2-Datenbanksystems per Befehlszeile und grafischen Werkzeugen
Erstellen von Instanzen, Datenbanken und Verwalten der Speicherarten der DB2
Backup und Recovery
Performance-Analyse und Optimierung
Fehlersuche und -behebung
Einführung in Partitionierung, pureXML und Zeilenkomprimierung
Einrichtung und Konfiguration von Zugriffsschutz und Überwachung

Voraussetzungen:

Erfahrungen mit grundlegenden Administrationstechniken auf Windows- oder Unix-Systemen, Kenntnisse der Konzepte relationaler Datenbanksysteme sowie grundlegende SQL-Kenntnisse.

Typ: DB2
Hersteller: IBM DB2
Produkt & Version: DB2 9



CF23GV8.3: DB2 9 Administration Workshop for Windows

Dauer: 4,0 Tag(e)

Zielsetzung:

In diesem Kurs lernen die Teilnehmer die Administration der Datenbank DB2 9 unter Linux. Sie erstellen Instanzen und Datenbanken, Verwalten den Platz auf der Festplatte, erstellen Datenbank-Sicherungen und Restaurieren die Daten. Die neuen Funktionen der DB2 9 im Bereich Partitionierung, Zeilenkomprimierung und pureXML werden vorgestellt und erläutert.

Zielgruppe:

Inhalte:

Administration eines DB2 Datenbanksystems per Befehlszeile und grafischen Werkzeugen
Erstellen von Instanzen, Datenbanken und Verwalten der Speicherarten der DB2
Backup und Recovery
Performance-Analyse und Optimierung
Fehlersuche und -behebung
Einführung in Partitionierung, pureXML und Zeilenkomprimierung
Einrichtung und Konfiguration von Zugriffsschutz und Überwachung

Voraussetzungen:

Erfahrungen mit grundlegenden Administrationstechniken auf Windows- oder Unix-Systeme,
Kenntnisse der Konzepte relationaler Datenbanksysteme sowie grundlegende SQL-Kenntnisse.

Typ: IBM Tivoli
Hersteller: IBM Tivoli
Produkt & Version:



TS6101: IBM Tivoli Storage Manager 6.1 Implementierung und Administration: Teil 1
Einsteiger

Dauer: 5,0 Tag(e)

Zielsetzung:

Dieser Kurs ist die Basis der IBM Tivoli Storage Manager Ausbildung. Er dient als Einstiegskurs für alle weiteren TSM Administrationskurse. Durch viele praktische Übungen am System (Windows und UNIX), wird nicht nur Theorie, sondern auch der praktische Umgang mit der Software geschult.

Zielgruppe:

Dieser Kurs richtet sich an alle Administratoren, die verantwortlich sind für eine IBM Tivoli Storage Manager Lösung.

Inhalte:

IBM Tivoli Storage Manager Übersicht
Installation vom IBM Tivoli Storage Manager Server und Client
Administratives Interface und Privileges
Storage Media Devices Einführung
Management von Storage Pools und Storage Pool Volumes
Policy Management
Anpassung der Tivoli Storage Manager Datenbank und vom Recovery Log
Client Konfiguration
Backup-Archive Client Funktionen
Schutz von Datenbank und Storage Pools
Automation

Hinweis: Die Kursunterlagen sind in englischer Sprache

Voraussetzungen:

Die Teilnehmer sollten Windows oder UNIX Kenntnisse für die Praktikas haben. Im Anschluss an diesen Kurs ist dieser Kurs zu empfehlen: TS6201.

Typ: IBM Tivoli
Hersteller: IBM Tivoli
Produkt & Version:



TS6201: IBM Tivoli Storage Manager 6.1 Implementierung und Administration: Teil 2
Fortgeschrittene

Dauer: 5,0 Tag(e)

Zielsetzung:

Dieser 5-tägige Kurs baut auf vorhandene, grundlegende Kenntnisse des IBM Tivoli Storage Manager auf. Aufbauend auf dem Kurs "IBM Tivoli Storage Manager 6.1 Implementierung und Administration: Teil 1" wird in diesem Kurs detailliert auf die Administration des IBM Tivoli Storage Manager 6.1 eingegangen. Administratoren erfahren, wie eine Tivoli Storage Manager-Umgebung überwacht und optimiert werden kann, welche Maßnahmen bei der Fehlersuche zu ergreifen sind. In Tivoli Storage Manager 6.1 wurde eine DB2-Datenbank implementiert und das Reporting wurde verbessert. Die Übungen zeigen neue Datenbank Optionen und Datenbank Management Methoden. In Übungen wird auch das neue Reporting-Werkzeug Tivoli Common Reporting (TCR) behandelt. Darüber hinaus beinhalten die Übungen auch den Einsatz mehrerer Server, um einen unternehmensweiten Einsatz zu simulieren. Sie werden Übungen zur Problemlösung bearbeiten, führen eine Vielzahl von Backup- und Restore-Prozessen durch und optimieren die Datenverwaltung. Sie werden auch den Backup-Archiv-Client und den Tivoli Storage Manager 6.1-Server in Richtung Performance optimieren.

Zielgruppe:

Dieser Kurs ist für fortgeschrittene Administratoren, die bereits Erfahrung mit dem Tivoli Storage Manager haben und detailliertes Wissen über die erweiterten Möglichkeiten von TSM benötigen.

Inhalte:

Tivoli Storage Manager 6.1 Konzepte und neue Funktionen
Datenbank und Log Handhabung
Speicherpool Handhabung
Information Access und Monitoring
Makros und Skripte
Netzwerk Konfiguration und Tivoli Storage Manager Performance
Problemlösungs Konzepte
Backup- und Wiederherstellungsmethoden
Enterprise Administration mit mehreren IBM Tivoli Storage Manager Servern
Server-to-Server Virtual Volumes
Berichte mit Tivoli Common Reporting

Hinweis: Die Kursunterlagen sind in englischer Sprache

Voraussetzungen:

Sie sollten den Kurs TS6101 besucht haben oder den entsprechenden Kurs der Vorversion..

DEV475: Mastering Object-Oriented Analysis and Design using UML

Dauer: 4,0 Tag(e)

Zielsetzung:

Die Teilnehmer erlernen die Analyse und das Design (Entwurf) von objektorientierter Software im Kontext eines interaktiven Entwicklungsprozesses (Rational Unified Process) und objektorientierter Methoden unter Anwendung der UML-Notation.

Zielgruppe:

Softwarearchitekten und Softwareentwickler, technische Manager und Projektleiter in der Softwareentwicklung.

Inhalte:

Einführung in den Rational Unified Process, einen iterativen Softwareentwicklungsprozess

Konzepte der Objektorientierung und Diagramme der UML

Architekturelle Analyse

- Festlegung für die Analyse

Use Case Analyse

- Erstellen eines Analysemodells für einzelne Anwendungsfälle in UML Notation

Architekturelles Design

- Entscheidungen und Artefakte zur Softwarearchitektur im Design

- Beschreibung architektureller Mechanismen

Beschreibung der Verteilung auf parallele Prozesse und Rechnerknoten

Use Case Design

- Erstellen eines Designmodells für einzelne Anwendungsfälle

Subsystemdesign

- Erstellen eines Designmodells für Komponenten

Klassendesign

- Feindesign von Klassen

- Vererbungsbeziehungen im Design

- Zustandsmodelle für Klassen (Zustandsdiagramme in der UML)

Voraussetzungen:

Erforderlich sind praktische Erfahrungen in der Softwareentwicklung, Kenntnisse in der Objektorientierung sowie in einer objektorientierten Programmiersprache. Empfohlen werden UML-Kenntnisse.

DEV900: Fundamentals of Rational Rose

Dauer: 1,0 Tag(e)

Zielsetzung:

Die Teilnehmer können mit IBM Rational Rose ein objektorientiertes Softwaremodell in UML-Notation erstellen und bearbeiten. Des Weiteren werden Kenntnisse über den Einsatz von IBM Rational Rose im Team vermittelt.

Zielgruppe:

Softwarearchitekten und Softwareentwickler, technische Manager und Projektleiter in der Softwareentwicklung.

Inhalte:

Visuelle Modellierung und die UML

- Bedeutung der visuellen Modellierung
- Was ist UML und welche Diagrammtypen sind vorhanden

Grundlagen der Modellierung in Rose

- Die Struktur eines Modells in Rose
- Die Benutzeroberfläche von Rose
- Grundlegende Techniken in Rose

Benutzung von Rose im Team

- Erstellung und Wiederverwendung von Controlled Units
- Zusammenarbeit zwischen Rose und SourceControl Tools

Erstellung eines Use-Case Modells

- Use-Case Diagramm
- Activity Diagramm

- Verknüpfung mit externen Dokumenten

Erstellung einer Use-Case Realisierung

- Use-Case Realisierung und deren Bedeutung für die Strukturierung eines Modells

Erstellung von Interaktionsdiagrammen

- Sequence Diagramm
- Collaboration Diagramm

Erstellung von Klassendiagrammen

- Class Diagramm und deren Anordnung im Modell
- Überprüfung von Zugriffsverletzungen

Einführung in Round-Trip Engineering

- Grundbegriffe und Demo eines kleinen Java-Beispiels (keine Übung)

Voraussetzungen:

Grundlagen der UML-Notation und der Objektorientierung.

Typ: Rational \ Analysis und Design
Hersteller: IBM Rational
Produkt & Version:



**DEV901: Bundle: Mastering Object-Oriented Analysis and Design using UML and
Fundamentals of Rational Rose**

Dauer: 5,0 Tag(e)

Zielsetzung:

Zielgruppe:

Inhalte:

Das Bundle besteht aus den beiden Kursen:

- DEV475 Mastering Object-Oriented Analysis and Design using UML (4 Tage) sowie
- DEV900 Fundamentals of Rational Rose (1 Tag)

Voraussetzungen:

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



QS171: IBM Rational Synergy Developer

Dauer: 1,0 Tag(e)

Zielsetzung:

This course provides an introduction to how students can use Rational Synergy as part of their development activities. The course offers students hands on practice with the Rational Synergy Graphical User Interface and shows how it can be used in the complete development cycle as the students, and the other members of their teams, complete the work that they have been assigned.

Zielgruppe:

This instructor-led, classroom course is intended for the following audience: Developers, Build Managers, Project Managers

Inhalte:

- Starting Rational Synergy
- Concept Overview and Terminology
- Developer's day-to-day activities
- Working with a team
- Help and Support

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: Experience with team-based development and testing, Working knowledge of UNIX or Windows OS and file systems

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



QS176: IBM Rational Synergy Developer Advanced

Dauer: 1,0 Tag(e)

Zielsetzung:

This course covers concepts found in the solution environment like the Synergy Project, Work Area, Directory Members, Tasks, Versions, Purpose, Release, Baseline, Project Grouping and how to apply these features during day to day development or when using Synergy as a Team Leader. Working with Rational Change is also a focus of this class. This course teaches about the Change Request lifecycle, Querying and Reporting in Change and configuring Rational Change Home pages. After completing this course you will understand the advanced functions of Synergy needed by developers using the Synergy user interface.

Zielgruppe:

Software Developers

Inhalte:

Introduction to Process and Build Management
Testing Cycles
Task and Object Relation
Project and Subprojects
Work Areas (Windows and Unix) Advanced usage
Command Line Interface presentation
Rational Synergy Classic presentation
Working with a Component Based Design (CBD) process
Rational Change

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have the following skills or experience: IBM Rational Synergy Developer

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



QS181: IBM Rational Synergy Build Manager

Dauer: 2,0 Tag(e)

Zielsetzung:

In this course, build managers learn to use IBM Rational Synergy to meet their projects' configuration management goals. Students learn the processes needed to define and manage projects, releases, baselines, and work areas. Course topics include how to set up new projects, share work between developers, manage conflicts between dependent source files, and support integration and system testing activities.

Zielgruppe:

Build Managers, Team Leaders, Configuration Managers, Release Managers

Inhalte:

- Synergy Terminology
- Managing Synergy Project Contents
- Configuration Management Using Synergy
- Setting Up Software Releases
- Integration and System Testing
- Finalizing a Release
- Managing Conflicts
- Managing Baselines
- Parallel Development
- Structuring Projects

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have: Experience with team-based software development and testing. Working knowledge of UNIX or Windows OS and file systems. An understanding of make or build processes for Java, C, C++ or other programming languages. A fundamental understanding of programming design and structures.

QS186: IBM Rational Synergy Administration

Dauer: 1,0 Tag(e)

Zielsetzung:

This course is designed to provide you with an understanding of the operations required to administer Synergy. It presents information enabling a system administrator to configure the Synergy environment for optimal use of system resources. Additionally, you will learn about Synergy processes, INFORMIX architecture, database structure, backup and recovery, utilities and actions for ensuring the integrity of your Synergy installation. This course has been designed to help those people who have a role in maintaining Rational Synergy within an enterprise. The people who undertake this administration may have very different roles and backgrounds within individual enterprises.

Zielgruppe:

Change Manager, Release Manager, Lifecycle Designer

Inhalte:

Maintain and administer the IBM Rational Synergy tool on a day-to-day basis
Describe how Rational Synergy stores object versions and how the Telelogic Synergy database is constructed
Prepare for the maintenance and administration of the tool in case of "disaster recovery"
Install the IBM Rational Synergy tool

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: Familiarity with standard system administration duties, Command-line interface for either the UNIX or Windows operating system

QS191: IBM Rational Synergy Process Tailoring V7.1

Dauer: 1,0 Tag(e)

Zielsetzung:

The IBM Rational Synergy Process Tailoring course will show you how Rational Synergy can help you automate the process of your workflows among developers from testing to release. This training class will also show how you can effectively use different types of projects for different purposes. For example, developers use projects for implementing and unit-testing their changes. Build managers use projects for gathering the newest completed changes and building a test area. The rules for how those projects behave when they are updated (that is, which baseline they start from and which tasks they use) is defined by the Rational Synergy process. This class shows how you can support many different processes, and lets you tailor the tool to match your working process.

Zielgruppe:

Build managers that want to tailor Rational Synergy processes to their complex project needs.
Rational Synergy implementers that want to know how to deploy Rational Synergy in organizations to help them achieve their business goals.

Inhalte:

Introduction to Process Tailoring
Purposes
Project Groupings and Tasks
Folders and Folder Templates
Patterns for Agile Development and Code Sharing
Patterns for Testing and Approval
Patterns for Parallel Development
Patterns for Component-based Development
Patterns for Driving Development with CRs
Pattern for Distributed Change Management (DCM)

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have or have completed: Rational Synergy Developer, Rational Synergy Build Manager

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS2040: Essentials of IBM Rational ClearQuest

Dauer: 1,0 Tag(e)

Zielsetzung:

This course introduces students to using IBM Rational ClearQuest to track change requests. It covers the basic concepts involved in change management and how IBM Rational ClearQuest facilitates creating change records, controlling the change management process, and communicating status to project stakeholders using queries, reports, and charts.

Zielgruppe:

Project Managers, Developers, Business Analysts, Testers (Quality Assurance), and Support Engineers

Inhalte:

Change Management

- Submitting Change Records
- Queries and Reports
- Modifying Change Records
- Reporting with Charts

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students must have: A strong interest in learning about defect and change tracking, experience using the Microsoft Windows operating system.

RS303U: Essentials of Configuration Management with IBM Rational ClearCase Unix

Dauer: 1,0 Tag(e)

Zielsetzung:

Essentials of Configuration Management with IBM Rational ClearCase v7.1 is a one-day, instructor-led course designed to teach configuration managers how to implement ClearCase effectively in their development environments (UNIX). This course introduces participants to the discipline of software configuration management (SCM) and discusses the attributes of effective SCM. Participants learn what information is critical to include in a configuration management plan. They practice creating and implementing a usage model based on a simulated software development project. The usage model includes details about organizing project artifacts, branching strategies, and project process and policies.

Zielgruppe:

This course is intended for users who fill the role of configuration manager in their organizations. Some knowledge of ClearCase is assumed. No knowledge of ClearCase administration is assumed.

Inhalte:

- Software Configuration Management Overview
 - Attributes of effective SCM
 - SCM and ClearCase
 - The Configuration Management Plan
- Creating a Usage Model
- Setting up project artifacts
 - Creating VOBs
 - Importing data into VOBs
 - Creating and applying label types
- Planning and implementing a branching strategy
 - Creating branch types
 - Automating configuration specification usage
- Creating and implementing project policies
 - Triggers
 - Attributes

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: Completed Essentials of Rational ClearCase course OR at least six months on-the-job ClearCase experience.

RS303W: Essentials of Configuration Management with IBM Rational ClearCase Windows
Fortgeschrittene

Dauer: 1,0 Tag(e)

Zielsetzung:

Essentials of Configuration Management with IBM Rational ClearCase v7.1 is a one-day, instructor-led course designed to teach configuration managers how to implement ClearCase effectively in their development environments (Windows). This course introduces participants to the discipline of software configuration management (SCM) and discusses the attributes of effective SCM. Participants learn what information is critical to include in a configuration management plan. They practice creating and implementing a usage model based on a simulated software development project. The usage model includes details about organizing project artifacts, branching strategies, and project process and policies.

Zielgruppe:

This course is intended for users who fill the role of configuration manager in their organizations. Some knowledge of ClearCase is assumed. No knowledge of ClearCase administration is assumed.

Inhalte:

Software Configuration Management Overview

- Attributes of effective SCM
- SCM and ClearCase
- The Configuration Management Plan

Creating a Usage Model

Setting up project artifacts

- Creating VOBs
- Importing data into VOBs
- Creating and applying label types

Planning and implementing a branching strategy

- Creating branch types
- Automating configuration specification usage

Creating and implementing project policies

- Triggers
- Attributes

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: Completed "Essentials of Rational ClearCase" course OR at least six months on-the-job ClearCase experience.

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS404W: Essentials of Configuration Management with IBM Rational ClearCase UCM Windows

Dauer: 2,0 Tag(e)

Zielsetzung:

Upon completion of the course, students will be able to: Define software configuration management and list the attributes of an effective software configuration management system. Explain the purpose and describe the contents of a configuration management plan. Complete a ClearCase UCM usage model. Implement a ClearCase UCM usage model by:
Setting up project artifacts. Creating UCM projects that implement a streaming strategy. Implementing project process and policies through ClearCase and IBM Rational ClearQuest.

Zielgruppe:

This course is intended for users who fill the role of configuration manager in their organizations. Some knowledge of ClearCase is assumed. No knowledge of ClearCase administration is assumed.

Inhalte:

- Getting started in ClearCase
- Typical developer workflow
- Workspace management
- The checkin/checkout model
- Versioning and branching software assets
- Snapshot, dynamic, and web views
- Understanding config specs
- Managing parallel development
- ClearCase metadata

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students must have: One year experience working with Windows, Rational ClearCase, Rational ClearCase Remote Client

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS5040: Essentials of IBM Rational ClearCase for Windows

Dauer: 2,0 Tag(e)

Zielsetzung:

Essentials of IBM Rational ClearCase for Windows is an instructor-led course that teaches developers how to perform common day-to-day tasks using Rational ClearCase. It teaches the concepts and skills developers need to successfully manage source code change in their development environments. This course provides basic training in ClearCase functionality for those who intend to take more advanced courses in the ClearCase curriculum.

Zielgruppe:

This course is intended for first-time Rational ClearCase users requiring an introduction to ClearCase concepts and a practical, hands-on introduction to common Rational ClearCase operations.

Inhalte:

- Getting started in ClearCase
- Typical developer workflow
- Workspace management
- The checkin/checkout model
- Versioning and branching software assets
- Snapshot and dynamic views
- Configuring workspaces for parallel development
- Integrating parallel development
- ClearCase metadata
- Managing builds with clearmake and omake

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Students must have one year experience working with Windows

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS5120: Essentials of IBM Rational ClearCase for UNIX

Dauer: 2,0 Tag(e)

Zielsetzung:

This course provides instruction to developers on how to perform common day-to-day tasks using Rational ClearCase. It teaches the concepts and skills that developers need to successfully manage source code change in their development environments.

Zielgruppe:

Beginning Rational ClearCase users

Inhalte:

- Getting started in ClearCase
- Typical developer workflow
- Workspace management
- The checkin/checkout model
- Versioning and branching software assets
- Snapshot and dynamic views
- Configuring workspaces for parallel development
- Integrating parallel development
- ClearCase metadata
- Managing builds with clearmake

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: One year experience working with Unix

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS5240: Essentials of IBM Rational ClearCase UCM for Windows

Dauer: 1,0 Tag(e)

Zielsetzung:

This course introduces the concepts of Rational ClearCase Unified Change Management (UCM), the software development best practice that integrates artifact and activity management. It teaches the student to use Rational ClearCase UCM and Rational ClearQuest to perform common, day-to-day software development tasks such as joining a project, checking out files from source control and checking in files to source control, merging your work with the work of others, updating your workspace, and working offline.

Zielgruppe:

Software developers

Inhalte:

- Module 0 About This Course
- Module 1 UCM Concepts
- Module 2 Getting Started
- Module 3 Working with Activities
- Module 4 Delivering Activities
- Module 5 Rebasing
- Module 6 Advanced Deliver Scenarios
- Module 7 Working with Snapshot Views
- Appendix A Managing Builds in ClearCase

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

One year experience working Microsoft Windows

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS6020: Mastering IBM Rational ClearCase Administration for Windows

Dauer: 2,0 Tag(e)

Zielsetzung:

This course teaches students to perform tasks necessary to deploy and maintain an enterprise-wide ClearCase implementation. Mastering IBM Rational ClearCase Administration teaches ClearCase administrative tasks related to setting up an environment, system and data maintenance, security, back-up techniques, licensing, and installation.

Zielgruppe:

Administrators, experienced IBM Rational ClearCase users

Inhalte:

- The ClearCase environment
- The registry and regions
- Managing VOBs
- Managing access control
- Managing views
- Managing storage pools
- Scheduling tasks
- Backing up and restoring ClearCase objects
- ClearCase licensing
- Planning a ClearCase implementation
- Installing ClearCase

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS6120: Mastering IBM Rational ClearCase Administration for Unix

Dauer: 2,0 Tag(e)

Zielsetzung:

This course teaches students to perform tasks necessary to deploy and maintain an enterprisewide ClearCase implementation. Mastering IBM Rational ClearCase Administration teaches ClearCase administrative tasks related to setting up an environment, system and data maintenance, security, back-up techniques, licensing, and installation.

Zielgruppe:

Experienced IBM Rational ClearCase users, administrators

Inhalte:

- The ClearCase environment
- The registry and regions
- Managing VOBs
- Managing access control
- Managing views
- Managing storage pools
- Scheduling tasks
- Backing up and restoring ClearCase objects
- ClearCase licensing
- Planning a ClearCase implementation
- Installing ClearCase

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

RS6330: Mastering IBM Rational ClearQuest Administration

Dauer: 3,0 Tag(e)

Zielsetzung:

This course provides training for administering and customizing IBM Rational ClearQuest. It examines planning and implementing defect and change request tracking processes, customizing ClearQuest to facilitate these operations, and administering the ClearQuest system. This course is recommended for new ClearQuest administrators or system architects who want to learn to manage the defect and change tracking process with IBM Rational ClearQuest.

Zielgruppe:

IBM Rational ClearQuest administrators, System architects

Inhalte:

Defect and change tracking, and ClearQuest administrative tools
Planning and implementing defect and change tracking processes
Using Rational ClearQuest to submit change requests, modify existing records, run queries, create charts, and generate reports
Use the ClearQuest Designer to customize a schema, apply a package, create a test database, and test the customized schema
How to use the ClearQuest Designer to customize the defect and change tracking process
How to use the ClearQuest Designer to customize fields and forms
How to use hooks and scripts to enhance the defect and change tracking mechanism
How to call ClearQuest API functions in external application programs
ClearQuest system requirements and how to install and upgrade IBM Rational ClearQuest
How to manage user and group accounts in ClearQuest
How to use ClearQuest Web and ClearQuest e-mail subsystems
How to perform import and export operations in ClearQuest
How to integrate ClearQuest with other Rational Software products such as IBM Rational ClearCase and third party products
Using ClearQuest Diagnostics to evaluate and debug hooks and scripts.
Integrating ClearQuest with LDAP

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

To benefit from this course, students should have the following skills or experience: Have some basic knowledge of relational database management systems. Know the meaning of defect and change tracking. Have some experience with script development using VBScript and/or Perl. Understand the need for collaborative development. Essentials of IBM Rational ClearQuest.

RS641: Mastering IBM Rational ClearQuest MultiSite Administration

Dauer: 2,0 Tag(e)

Zielsetzung:

Die Teilnehmer sind in der Lage, ClearQuest MultiSite einzurichten und zu pflegen. Dies umfasst das Einrichten der ClearQuest MultiSite Umgebung (Erstellen von Replicas) bis hin zu laufenden Administrationsarbeiten wie Synchronisation und Backup. Sie erlernen, wie sich die Synchronisation automatisieren lässt, wie man verlorene Pakete wiedergewinnt und Replicas auflöst.

Zielgruppe:

ClearQuest Administratoren

Inhalte:

ClearQuest MultiSite Komponenten und ihre Arbeitsweise
Operation Logs
Vorgehensweise bei Export, Transport und Import
Erstellen von Replicas
Replikations-Prozess bei ClearQuest MultiSite
Replica-Export und -Import
Transportmechanismen für die Replica Pakete
Synchronisieren von Replicas
Synchronisationsprozess und -muster
Einrichten der Synchronisation
Behandlung von Namenskonflikten
Automatisieren der Synchronisation
Shipping-Server
Anpassen des Shipping-Servers
Shipping-Orders
Object Mastership
Bedeutung der Mastership
Mastership eines Objektes übertragen bzw. anfordern
Wiederherstellen verlorener Pakete
Operation Logs und Epoch Nummern
Vorgehen zur Wiederherstellung von Paketen
Managen von ClearQuest MultiSite Replicas
Backup und Restore von Replicas
Verschieben von Replicas
Fehlerbehebung
Auflösen von Replicas
ClearQuest MultiSite und ClearQuest Integrationen
ClearCase Integration
ClearCase UCM Integration
Integrationen zu den Rational Suite Produkten

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Vorteilhaft sind Kenntnisse in der Windows- beziehungsweise UNIX-Administration

Typ: Rational \ Change Configuration & Release Management
Hersteller: IBM Rational
Produkt & Version:



RS725: Configuring Projects in IBM Rational Team Concert V3.0

Dauer: 3,0 Tag(e)

Zielsetzung:

This course targets project administrators and team leads. Learn how to configure Rational Team Concert project areas and processes so that the core IBM practices for agile development and change and release management can be effectively adopted by the project team. Topics include planning projects, teams, and iterations to support both traditional and agile projects; defining source control streams and component structure; customizing process controls and work items; and customizing Rational Team Concert queries and reports to provide project status and measure progress.

Zielgruppe:

This course is for: Project Administrators, Team Leads, Scrum Masters, Product Owners

Inhalte:

- Best practices for project planning
- Managing work items in IBM Rational Team Concert
- Creating project areas and teams
- Planning in Rational Team Concert
- Managing reports and project dashboards

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should complete: RS840. You should have: Experience working with Microsoft Windows, Understand basic software development principles, Understand basic project planning principles, Working knowledge of an Eclipse-based IDE

RS840: Developing Software with IBM Rational Team Concert V3.0

Dauer: 1,0 Tag(e)

Zielsetzung:

This course is a one-day, instructor-led course designed as an introduction to IBM Rational Team Concert for software developers. Students will learn to utilize IBM Rational Team Concert to effectively manage their work items, collaborate and share work with their team using Jazz source control, request and analyze software builds, and monitor the status of their Eclipse-based development projects using reports and web-based dashboards.

Zielgruppe:

This course is for software developers (Eclipse environment).

Inhalte:

Introduction to Application Lifecycle Management
Overview of IBM Rational Team Concert
Managing work items in IBM Rational Team Concert
Working with Jazz source control in IBM Rational Team Concert
Working with Jazz builds in IBM Rational Team Concert
Tracking project status in IBM Rational Team Concert

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Students should have: Experience working with Microsoft Windows. Understand basic software development principles. A working knowledge of the Eclipse Workbench.

There is a wealth of information available online to help you learn the terminology and navigation in the Eclipse Workbench. Just enter 'Eclipse Workbench Tutorial' in your favorite search engine.

Typ: Rational \ IBM Rational Application Developer
Hersteller: IBM Rational
Produkt & Version: RAD 6



SW244: Introduction to Java Using IBM Rational Application Developer V6

Einsteiger

Dauer: 5,0 Tag(e)

Zielsetzung:

Der Kurs vermittelt den Einstieg in die Java-Welt und zeigt die Grundlagen der Java-Programmierung auf. Anhand von Beispielen und Übungen lernen die Teilnehmer, wie sie die Java-Werkzeuge der IBM Produktfamilie Rational Application Developer effektiv einsetzen.

Zielgruppe:

Entwickler, die in die Java-Programmierung einsteigen und den IBM Rational Application Developer zur Entwicklung von Java-Anwendungen einsetzen möchten.

Inhalte:

Konzepte der Programmiersprache Java

- Sprachkonstrukte
- Klassen und Interfaces
- Packages
- Vererbung
- Exception Handling

Verwendung wichtiger Java-APIs

- Collection Framework
 - Serialisierung, Klassenbibliotheken zur Ein- und Ausgabe sowie Einführung in Threads
- Effizienter Einsatz der Werkzeuge des IBM Rational Application Developers zum Entwickeln und Debuggen von Java-Anwendungen

Hinweis: Dieser Kurs wird mit den Original IBM Schulungsunterlagen durchgeführt.

Voraussetzungen:

Hilfreich sind Kenntnisse zur OO-Programmierung (wie C++, Smalltalk, Delphi...)

Typ: Rational \ IBM Rational Application Developer
Hersteller: IBM Rational
Produkt & Version: RAD 6



SW284: Servlet and JSP Development with IBM Rational Application Developer V6

Fortgeschrittene

Dauer: 5,0 Tag(e)

Zielsetzung:

Die Teilnehmer lernen, wie sie Webanwendungen mit dem IBM Rational Application Developer V6 implementieren.

Zielgruppe:

Entwickler, die gut skalierbare Webapplikationen für den IBM WebSphere Application Server erstellen möchten.

Inhalte:

Effizienter Einsatz des Rational Application Developers
J2EE-Überblick

- Multi-Tier-Architekturen
- Java-basierte Application Server
- Bestandteile der Java2 Enterprise Edition

Konzepte und Erstellung von Webkomponenten mit dem IBM Rational Application Developer

- Statische Webkomponenten
- Servlets und Filter
- JavaServer Pages

Verwendung von JavaBeans in Webapplikationen

Deployment, Test und Debugging von Webkomponenten mit dem IBM Rational Application Developer

Hinweis: Dieser Kurs wird mit den Original IBM Schulungsunterlagen durchgeführt.

Voraussetzungen:

Gute Java2-Programmierkenntnisse und Erfahrungen mit Eclipse-basierten Tools

Typ: Rational \ IBM Rational Application Developer
Hersteller: IBM Rational
Produkt & Version:



SW287: Developing Web Applications with IBM Rational Application Developer V6

Fortgeschrittene

Dauer: 4,0 Tag(e)

Zielsetzung:

Die Teilnehmer lernen den Umgang mit dem Rational Application Developer V6 zur Entwicklung von J2EE-Webanwendungen

Zielgruppe:

Erfahrene J2EE-Webentwickler

Inhalte:

Effiziente Verwendung des IBM Rational Application Developers zum Erstellen, Testen und Debuggen von Webanwendungen

Effizienter Einsatz der visuellen Bearbeitungswerkzeuge

Verständnis von Struts und JavaServer Faces

Erstellen von auf Struts und JavaServer Faces basierten Webanwendungen mit Hilfe des IBM Rational Application Developers

Verwenden der Profiling-Werkzeuge zur Laufzeitanalyse von Webanwendungen

Hinweis: Dieser Kurs wird mit den Original IBM Schulungsunterlagen durchgeführt.

Voraussetzungen:

Gute Kenntnisse in der Objektorientierung und Java2-Programmierung sowie in J2EE-Webtechnologien (Servlets, JSPs, HTML). Grundkenntnisse in XML und Kenntnisse zur Verwendung von relationalen Datenbanken.

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN113: IBM Rational DOORS Practitioner V9.3

Dauer: 1,0 Tag(e)

Zielsetzung:

This course builds on the content learned in the IBM Rational DOORS Foundation, V9.3 course. It is designed for those who will be in the role of team lead or project manager, or who want to learn more about advanced Rational DOORS end-user functionality. It discusses creating and structuring Rational DOORS projects, defining linking relationships and attributes, setting access permissions, and managing change. It also discusses external linking, working with spreadsheets, and applying configuration management strategies to Rational DOORS data.

Zielgruppe:

This course is for Business Analyst, Systems Engineer, Software Engineer, Requirements Engineer, Requirements Manager, Requirements Team Leader

Inhalte:

- Creating and structuring projects
- Creating linking relationships; analyzing relationships
- Getting information in and out of Rational DOORS
- Defining attributes
- Access permissions
- Round-tripping requirements
- Recording and managing changes
- Advanced relationship management
- Advanced display management
- Creating forms
- Archive and restore

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have completed: IBM Rational DOORS Foundation, V9.3

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN118: Customizing IBM Rational DOORS Using DXL V9.3

Dauer: 2,0 Tag(e)

Zielsetzung:

This course teaches the basic principles of writing and applying the IBM Rational DOORS extension language (DXL) to customize Rational DOORS.

Zielgruppe:

Experienced Rational DOORS users who want to customize Rational DOORS

Inhalte:

DXL Fundamentals
Rational DOORS Architecture
Reporting Information
File Input/Output (I/O) Operations
Rational DOORS Dialog Boxes
History, Discussions, and Access
DXL Libraries
Rational DOORS Menus
Advanced DXL

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have:

- Previous knowledge of structured procedural programming, preferably in C
- Proficiency in Rational DOORS

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN123: IBM Rational DOORS Information Architect V9.3

Dauer: 1,0 Tag(e)

Zielsetzung:

This course is designed for anyone in an organization involved in deploying and managing IBM Rational DOORS. The course offers a mix of best practice methods and tool skills specific to the deployment and management of Rational DOORS. The course promotes the merits of using a DOORS information architecture to align your use of Rational DOORS with your specific business and process needs.

Zielgruppe:

This course is for anyone who is involved in the deployment and management of Rational DOORS across an organization.

Inhalte:

- Developing an Information Architecture
- Map to a DOORS Data Model
- Aligning DOORS with Organization Process and Policies
- Deploying the Schema
- Managing Schema
- Integrating with your Development Environment

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have: completed IBM Rational DOORS Foundation course (mandatory), significant experience using Rational DOORS (suggested)

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN131: Principles of Requirements Management Foundation

Einsteiger

Dauer: 1,0 Tag(e)

Zielsetzung:

This one-day course is recommended for those who use Requirements Management (RM) processes to underpin their development lifecycle. The course provides a foundation in the fundamental concepts and methods involved in RM. These are applicable to all market sectors, regardless of whether you currently use IBM Rational tools.

Zielgruppe:

This instructor-led, classroom course is intended for the following audience: Anyone who is new to RM and is looking for a thorough foundation in its basic concepts and methods.

Inhalte:

- Concept Overview
- Analysis and Modeling
- Understand the Problem
- Derive a Solution
- Write Requirements
- Requirements Quality
- Qualification and Acceptance
- Put This into Context
- Lifecycles
- Planning
- Maintenance

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

There are no prerequisites for this course.

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN135: Principles of Requirements Management Practitioner

Dauer: 1,0 Tag(e)

Zielsetzung:

This one-day course is recommended to consolidate the concepts covered in the associated Requirements Management (RM)-Foundation course through the participation in a series of interactive scenarios.

Zielgruppe:

This course is designed for anyone who is looking for practical experience in the use of RM processes from the safety of a classroom environment. Job roles might include business analysts, systems and software engineers, requirements managers and project managers.

Inhalte:

RM Planning
Bidding for the Job
Developing the Requirements
Coping with Customer Changes
Delivering the Capability

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You must successfully complete Principles of Requirements Management-Foundation Course: QN131

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN163: IBM Rational DOORS Foundation V9.3

Einsteiger

Dauer: 1,0 Tag(e)

Zielsetzung:

This course is for new Rational DOORS users. It introduces basic Rational DOORS concepts and functionality. It includes hands-on exercises that will teach you to create, edit, manipulate, and analyze requirements data in Rational DOORS.

Zielgruppe:

This course is for new IBM Rational DOORS users.

Inhalte:

- View information
- Edit information
- Structure information
- Get Word documents into Rational DOORS
- Generate requirements documents
- Use attributes to capture information about requirements
- Find data
- Manipulate the display
- Create and analyze traceability
- Insert information in other formats

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Keine

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



QN220: Requirements Writing Techniques

Dauer: 1,0 Tag(e)

Zielsetzung:

This course covers the creation and management of the various types of requirements and how they fit within the context of the broader systems engineering process. Organizations need to establish requirements, regardless of their business methods or tool selections. You will work through a series of training units that will help you demonstrate your understanding of the material. You will work within groups to complete practical exercises that reinforce the objects of each unit, obtaining a strong foundation in requirement writing techniques. Produced and frequently conducted by author and Requirements Management expert, Professor Ken Jackson, the Requirement Writing Techniques course has proven to be an ideal vehicle for organizations to begin to use or reinforce best practices for the development and management of requirements through out the whole lifecycle for a product.

Zielgruppe:

Requirements Authors

Inhalte:

The Systematic Approach
Level of Requirements
Quality Requirements
Case Study
Models
Requirements Review
Course Review

Die Kurssprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

There are no prerequisites for this course.

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



RR202D: Essentials of IBM Rational RequisitePro Client for Web

Dauer: 1,0 Tag(e)

Zielsetzung:

This course provides an overview of requirements management processes, and an introduction to creating and managing requirements using IBM Rational RequisiteWeb.

Zielgruppe:

Project Managers, Development Engineers, Analysts

Inhalte:

- Requirements management process overview
- Introduction to RequisiteWeb
- Creating requirements
- Creating requirements documents
- Maintaining requirements and requirement attributes
- Managing traceability
- Using discussions
- Project administration (Optional)

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



RR3320: Essentials of IBM Rational RequisitePro

Dauer: 1,0 Tag(e)

Zielsetzung:

This course provides instruction on the use of IBM Rational RequisitePro, a tool for capturing and managing requirements for a project. Students gain an understanding of RequisitePro project structure and use the tool to apply software development best practices. The computer labs guide students through building and adding data to a class project within the context of a controlled requirements management process. The labs completed in class focus on applying RequisitePro in a work environment.

Zielgruppe:

End users, Analysts

Inhalte:

- Introduce requirements management and RequisitePro
- Establish a RequisitePro project
- Gather and enter requirements
- RequisitePro documents and offline authoring
- Views, traceability, metrics, and RequisitePro Baseline Manager
- Revision notification and group discussions

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have: Attended the Requirements Management with Use Cases course, but not required

Typ: Rational \ Requirements Definition & Management
Hersteller: IBM Rational
Produkt & Version:



RR351: Essentials of IBM Rational Requirements Composer V2.0

Einsteiger

Dauer: 1,0 Tag(e)

Zielsetzung:

This course is designed to teach analysts and engineers how to use IBM Rational Requirements Composer to create, analyze, and manage both visual and textual requirement artifacts and requirements.

Zielgruppe:

This course is for: Analysts, Project managers, IT managers, Process engineers, Developers, User experience engineers, Quality assurance team, Technical writers, Architects

Inhalte:

- Create documents and requirements
- Use a glossary
- Sketch a business process
- Link requirements artifacts
- Create a use-case diagram and use-case specification
- Create an artifact template
- Create a pre-defined report
- Create a user interface sketch, a user interface part, and a storyboard
- Analyze requirements using: attributes, attribute groups, tags, and filters
- Organize requirements and artifacts, and track changes using collections and snapshots
- Collaborate with stakeholders on requirements using comments, reviews and approvals
- Describe the Rational Requirements Composer integrations

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

There are no prerequisites for this course.

RR617: Mastering Requirements Management with Use Cases

Dauer: 3,0 Tag(e)

Zielsetzung:

This course provides three days of training in requirements management and use-case modeling techniques. The course focuses on eliciting and managing the changing requirements of a project; analyzing the problem, defining the product vision and feature requirements, defining software requirements with use cases, and requirement attributes, and maintaining traceability, change management, and impact analysis for project scope management. The course shows how use-case modeling and requirements management techniques are used to define and document requirements that meet stakeholder needs. In-class exercises will give students practical experience in developing use cases.

Zielgruppe:

Systems, requirements, and business analysts, Project managers, software analysts and designers, QA designers and testers, and customers and users

Inhalte:

Introduction to Mastering Requirements Management with Use Case
Introduction to Use-Case Modeling
Analyze the Problem - Find the root causes of the problem, Identify the best solution to solve the business problem
Understand Stakeholder Needs
Define the System - Define product features, Find Actors and Use Cases
Manage System Scope - Use requirements attributes to plan and manage scope
Refine the System Definition - Detail the Use Cases, Define Supplementary Specifications
Manage Changing Requirements
Structure the Use-Case Model - (include) (extend), use-case, and actor generalization
Requirements Across the Product Lifecycle

Die Kursprache ist deutsch. Das Kursmaterial ist englisch.

Voraussetzungen:

You should have: Project management practices, the software development lifecycle