

IBM Training

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Service-oriented architecture (SOA)

SOA

Getting Started with SOA (Remote Classroom)



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Overview

Course code	VS007	Skill level	Basic
Duration	2.0 days	Delivery type	Classroom (Hands-on labs)
Course type	Public or Private on-site		
Public price	USD \$1,450.00 plus tax		

WebSphere/SOA/XML Certification

Train and Certify Promotion

Within six (6) months of completing this course or when the certification test expires, whichever comes first, you will be able to take the aligning certification test free of charge. The test is valued at \$200 USD in developed countries and \$100 in the emerging market countries. For complete promotion details, [click here](#).

For test retirement information, please refer to <http://www.ibm.com/certify/certs/index.shtml>. From the Software column, select the desired brand/technology, and refer to the retirement information on top of the next Web page.

NOTE: THIS IS AN INSTRUCTOR-LED ONLINE COURSE. PLEASE DO NOT MAKE TRAVEL ARRANGEMENTS FOR THIS COURSE.

Unless otherwise noted, all instructor-led online classes will take place from 10:00 AM to 6:00 PM U.S. EST.

This course offers an introduction to service-oriented architecture (SOA), and describes the essential concepts of SOA that affect a broad technical audience.

Special note

IBM Education Advantage Program Eligibility:

- Yes - IBM Education Pack - online account

Audience

This is a basic course designed for technical managers, application developers, system administrators, and architects. It is also beneficial for business analysts and business managers.

Prerequisites

Before taking this course, you should have one or more of these skills:

- Gathering and analyzing business requirements
- Managing software development projects
- Designing and developing software solutions
- Applying software development methodologies to the design of software solutions
- Administering software solutions
- Designing and developing systems integration solutions

Skills taught

- Explain the business and technical value of adopting SOA
- Describe SOA and explain how it relates to contemporary software architectural styles
- Explain the principles and characteristics of services within SOA, and identify various service types
- Explain Information Services, and how and when to apply it
- Describe service-oriented integration (SOI) and explain how it differs from contemporary integration approaches
- Identify methodologies for service-oriented analysis and design
- Describe programming models and standards that support the realization of SOA and SOI
- Describe Web services, and explain how they support the realization of SOA solutions
- Describe IBM's SOA Foundation, and identify IBM offerings that support IBM's SOA life cycle
- Define SOA governance
- Explain the need for SOA governance

- Explain IBM's SOA governance offerings for establishing SOA governance within an organization
- Explain IBM's SOA scenarios and describe how these support adoption of SOA within an organization

Course outline

- SOA overview
- SOA design principles
- Exercise: Case study overview
- SOA use of standards
- Exercise: Demonstration of Web services
- IBM SOA Foundation - product overview
- SOA Foundation - governance
- Exercise: Demonstration of governance
- SOA Foundation - model
- Exercise: Demonstration of service identification and specification
- SOA scenarios overview
- Exercise: Identifying and applying SOA scenarios to the case study
- SOA Foundation - assemble and deploy
- Exercise: Demonstration of service deployment and assembly using SCA
- Service management and security
- Exercise: Demonstration of IBM Tivoli Composite Application Manager for SOA

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

Start date	Location	Class lang.	Price	Class #
14 Dec 2009	Virtual Eastern, 99	ENGLISH	USD \$1,450.00	TFSY

Designing SOA Solutions Using IBM SOA Foundation (Remote Classroom)



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Interested in bringing a class to you? [Onsite training](#)

Overview

Course code	VS008	Skill level	Basic
Duration	3.0 days	Delivery type	Classroom (Hands-on labs)
Course type	Public or Private on-site		
Public price	USD \$2,175.00 plus tax		

WebSphere/SOA/XML Certification

Train and Certify Promotion

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This course helps you develop the skills needed to design SOA solutions. You'll learn about SOA design principles, patterns, and IBM methodologies for SOA design, as well as SOA Foundations products that can be used to gather requirements, identify services, model business processes, and realize SOA solutions.

[View this course in other countries](#)

Special note

IBM Education Advantage Program Eligibility

- Yes - IBM Education Pack - online account

Audience

This basic course is designed for architects, designers, and development leads who are experienced in:

- Creating enterprise application architectures and integration architectures to support Enterprise Application Integration (EAI) or Business Process Management (BPM) efforts
- Architecting Web services and J2EE based solutions
- Applying Rational Unified Process (RUP) based software development methodologies and techniques
- Modeling software architectures using UML 2
- Using tools and runtime including Rational Software Architect, WebSphere Business Modeler, WebSphere Integration Developer, and WebSphere Process Server

Portions of this course are also useful for process advisors, project managers, and business analysts.

This course is *not* intended for infrastructure architects.

Prerequisites

Before taking this course, you should be able to:

- Explain the business and technical value of adopting SOA
- Describe SOA and explain how it relates to contemporary software architectural styles
- Explain the principles and characteristics of services within SOA, and identify various service types
- Explain Information Services, and how and when to apply it
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- Explain the need for SOA governance
- Explain IBM's SOA governance offerings for establishing SOA governance within an organization
- Explain IBM's SOA scenarios and describe how these support adoption of SOA within an organization

Skills taught

-
- Assess strategies for SOA adoption
 - Describe SOA architecture and design principles
 - Review Rational Unified Process (RUP) disciplines for SOA development
 - Describe the service oriented modeling and architecture (SOMA) methodology for service development
 - Describe the tooling for capturing business requirements and goals for SOA
 - Describe the purpose of business modeling in SOA
 - Review business process models in IBM WebSphere Business Modeler
 - Follow the process guidance defined in SOMA for service identification, specification, and realization
 - Review UML service models
 - Describe SOA realization patterns

Course outline

- Course introduction
- Adopting a service-oriented architecture
- SOA architecture and design
- Process and methods
- Business modeling
- Service identification
- Information architecture and SOA
- Service specification
- Role of enterprise service bus in SOA
- Service realization patterns
- Implement the process
- Service registry and SOA

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

Start date	Location	Class lang.	Price	Class #
16 Dec 2009	Virtual Eastern, 99	ENGLISH	USD \$2,175.00	TFTD

Introducing the Value and Governance Model of Service-Oriented Architecture



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Interested in bringing a class to you? [Onsite training](#)

Overview

Course code	VW003	Skill level	Basic
Duration	0.8 days	Delivery type	Self-paced Virtual Class
Course type	Public only		
Public price	Call for price		

NOTE: THIS IS AN ONLINE SELF-PACED COURSE. PLEASE DO NOT MAKE TRAVEL ARRANGEMENTS FOR THIS COURSE.

Due to the nature of the enrollment mechanism, you see this course marked as a classroom course. However, this course is delivered via online streaming and will be available to you 24 hours a day for a four-week period from the time of enrollment. There is no instructor for this course. Choose any of the course instances listed under the course schedule to enroll, and you will receive information on how to access the course in 2-3 business days. After the enrollment, you will have access to the course for four weeks. (Please note: once you enroll in this course, you will not be able to unenroll.) Please do not make any travel plans for this class.

This course is the first of a suite of service-oriented architecture (SOA) Web-based training (WBT) courses aimed at enabling IT Architects to participate in and evaluate SOA engagements. It provides an introduction to the IBM vision of SOA but does not promote or teach using specific IBM products.

The course is self-directed and self-paced, and divided into modules so you can select and customize the course to your educational requirements.

This course prepares student to write certification exam 664: SOA Fundamentals. The remaining two courses in the SOA WBT suite, *Designing SOA Solutions with Project, Technical and Operational Governance (VW004)* and *Technologies and Standards for SOA Projects Implementation (VW005)*, prepare students to write certification exam 665: Architectural Design of SOA Solutions and provide the a sound background for attending the classroom course *Designing SOA Solutions with the IBM SOA Foundation (SOA59)*.

[View this course in other countries](#)

Special note

IBM Education Advantage Program eligibility:

- Yes- IBM Education Pack - online account

Audience

This is a basic course designed for software architects who need a basic understanding of SOA. Application developers, administrators, and managers may also benefit from this course.

Prerequisites

Before taking this course, students should have a basic knowledge of IT systems. There are no required prerequisites.

Skills taught

After completing this course, students should be able to:

- Explain what SOA is, and how it applies to different people and roles in an organization
- Describe SOA governance and explain why it is needed by today's businesses
- Explain the relationship between Web services and SOA
- Describe the business and technical value of SOA
- Follow established entry points into SOA

Course outline

- Introduction to service-oriented architecture
- Introduction to SOA governance
- Using Web services as an enabling technology for SOA
- The business and technical values of SOA
- Entry points into SOA

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

Designing SOA Solutions with Project, Technical, and Operational Governance



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Overview

Course code	VW004	Skill level	Basic
Duration	0.8 days	Delivery type	Self-paced Virtual Class
Course type	Public only		
Public price	Call for price		

NOTE: THIS IS AN ONLINE SELF-PACED COURSE. PLEASE DO NOT MAKE TRAVEL ARRANGEMENTS FOR THIS COURSE.

Due to the nature of the enrollment mechanism, you see this course marked as a classroom course. However, this course is delivered via online streaming and will be available to you 24 hours a day for a four-week period from the time of enrollment. There is no instructor for this course. Choose any of the course instances listed under the course schedule to enroll, and you will receive information on how to access the course in 2-3 business days. After the enrollment, you will have access to the course for four weeks. (Please note: once you enroll in this course, you will not be able to unenroll.) Please do not make any travel plans for this class.

This course is the second in a suite of three SOA Web-based training courses designed to enable IT architects to evaluate and participate in SOA engagements. The course deals primarily with concepts, using a combination of animation and diagrams to help students see the concepts in action.

The course is self-directed and self-paced, and divided into modules so you can select and customize the course to your educational requirements.

[View this course in other countries](#)

Special note

IBM Education Advantage Program eligibility:

- Yes - IBM Education Pack - online account

Audience

This course is designed for architects and lead developers.

Prerequisites

Before taking this course, students should complete course *VW003, Introduction to the Value and Governance Model of Service-Oriented Architecture*. Students should be able to:

- Define SOA, and state how it applies to different people and roles in an organization
- Explain SOA governance and why today's businesses need it
- Explain the relationship between Web services and SOA
- Describe the business and technical values of SOA
- Follow established entry points into SOA

Skills taught

After completing this course, students should be able to:

- Describe fundamental SOA design principles
- Apply SOA design principles using services
- Describe key SOA design patterns
- Use service choreography to model business processes
- Apply SOA governance in the design phase

Course outline

- Introducing principles of service-oriented architecture design
- Applying principles of service-oriented architecture design
- Applying patterns to the design of SOA solutions
- Modeling business processes using SOA
- SOA governance: Managing the SOA environment

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

Technologies and Standards for SOA Project Implementation



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Overview

Course code	VW005	Skill level	Intermediate
Duration	0.8 days	Delivery type	Self-paced Virtual Class
Course type	Public only		
Public price	Call for price		

NOTE: THIS IS AN ONLINE SELF-PACED COURSE. PLEASE DO NOT MAKE TRAVEL ARRANGEMENTS FOR THIS COURSE.

Due to the nature of the enrollment mechanism, the course is self-directed and self-paced, and divided into modules so you can select and customize the course to your educational requirements.

This course is the third of a suite of three Web-based training courses designed to enable IT architects to participate in evaluating, designing, and recommending products and technologies for service-oriented architecture (SOA) implementation.

This course is not based on any particular IBM product.

[View this course in other countries](#)

Special note

IBM Education Advantage Programs eligibility:

- Yes - IBM Education Pack - online account

Audience

This course is designed for architects. Lead developers and managers can also benefit from taking this course by improving their knowledge of Web services and other standards.

Prerequisites

Before taking this course, students should complete both of the following courses:

- *Introducing the Value and Governance Model of Service-Oriented Architecture Course* ([VW003](#))
- *Designing SOA Solutions with Project, Technical, and Operations Governance* ([VW004](#))

Skills taught

After completing this course, students should be able to:

- Describe the standards used for the interoperability of Web services, and how these can be implemented using IBM products
- Explain the standards for realizing SOA solutions
- Describe the rationale for selecting various products from the IBM SOA foundation to implement a solution for a given scenario

Course outline

- Developing interoperable Web service solutions
- Programming model and standards for realizing SOA solutions
- Implementing SOA solutions using IBM SOA foundation products
- Simulation: Governance and management scenario using WSRR

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

IBM WebSphere Transformation Extender Using SEPA



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Overview

Course code	VW008	Skill level	Intermediate
Duration	0.5 days	Delivery type	Self-paced Virtual Class
Course type	Public only		
Public price	USD \$465.00 plus tax		

NOTE: THIS IS AN ONLINE SELF-PACED COURSE. PLEASE DO NOT MAKE TRAVEL ARRANGEMENTS FOR THIS COURSE.

Course VW008, IBM WebSphere Transformation Extender Using SEPA, explains the features and functions of the Transformation Extender PACK for SEPA. The course is based on WebSphere Transformation Extender version V8.1.0.2 and the WebSphere Transformation Extender PACK for SEPA V1.0.

The single European payments area (SEPA) initiative requires all banks in the European Union (EU) to exchange data using a standard format. The first phase of the initiative must be implemented by January 2008. The Transformation Extender PACK for SEPA enables the any-to-any data transformation capabilities of Transformation Extender to support compliance with SEPA. This course explains how the Transformation Extender PACK for SEPA provides type trees, conversion maps, and a validation framework to allow country-specific data to be converted to and from SEPA data.

This course is self-directed and self-paced, and divided into modules so you can select and customize the course to your educational requirements.

Due to the nature of the enrollment mechanism, you see this course marked as a classroom course. However, this course is delivered via online streaming and will be available to you 24 hours a day for a four-week period from the time of enrollment. There is no instructor for this course. Choose any of the course instances listed under the course schedule to enroll, and you will receive information on how to access the course in 2-3 business days. After the enrollment, you will have access to the course for four weeks. (Please note: once you enroll in this course, you will not be able to unenroll.) Please do not make any travel plans for this class.

[View this course in other countries](#)

Special note

IBM Education Advantage Program Eligibility:

- YES - IBM Education Pack - Online Account

Audience

This intermediate course is designed for:

- Application developers and programmers who develop, design, and implement SEPA data transformation solutions using Transformation Extender
- Anyone interested in obtaining basic knowledge of the Transformation Extender PACK for SEPA

Prerequisites

Before taking this course, you should:

- Have a solid understanding of SEPA and XML data formats and processing logic
- Complete course *WebSphere Transformation Extender V8.1 Fundamentals* ([SW110](#))
- Complete course *WebSphere Transformation Extender V8.1 Using XML* ([VE114](#)) or ([WE114](#)), or have equivalent experience using Transformation Extender for mapping XML data

Skills taught

After completing this course, you should be able to:

- Explain the features of PACK for SEPA
- Describe type trees provided with PACK for SEPA
- Use a SEPA conversion map to convert data to SEPA format
- Identify the SEPA validation framework provided by the Transformation Extender PACK for validating SEPA message content
- Describe the options for handling large SEPA message bundles

Course outline

- WebSphere Transformation Extender PACK for SEPA overview
- SEPA type trees
- SEPA conversion maps
- SEPA validation framework

- Handling large files

Course schedule

Course prices are subject to change and schedules can change frequently, so please refer to our website for the latest information before enrolling.

Getting Started with SOA



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Interested in bringing a class to you? [Onsite training](#)

Overview

Course code	WS007	Skill level	Basic
Duration	2.0 days	Delivery type	Classroom (Hands-on labs)
Course type	Public or Private on-site		
Public price	USD \$1,450.00 plus tax		

This course offers an introduction to service-oriented architecture (SOA), and describes the essential concepts of SOA that affect a broad technical audience.

WebSphere/SOA/XML Certification

Train and Certify Promotion

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[View this course in other countries](#)

Special note

IBM Education Advantage Programs Eligibility:

- Yes - IBM Education Pack - online account

Audience

This is the basic course for technical managers, application developers, system administrators, and architects. It is also beneficial for business analysts and business managers.

Prerequisites

Before taking this course, you should have one or more of these skills:

- Gathering and analyzing business requirements
- Managing software development projects
- Designing and developing software solutions
- Applying software development methodologies to the design of software solutions
- Administering software solutions
- Designing and developing systems integration solutions

Skills taught

- Explain the business and technical value of adopting SOA
- Describe SOA and explain how it relates to contemporary software architectural styles
- Explain the principles and characteristics of services within SOA, and identify various service types
- Explain Information Services, and how and when to apply it
- Describe service-oriented integration (SOI) and explain how it differs from contemporary integration approaches
- Identify methodologies for service-oriented analysis and design
- Describe programming models and standards that support the realization of SOA and SOI
- Describe Web services, and explain how they support the realization of SOA solutions
- Describe IBM's SOA Foundation, and identify IBM offerings that support IBM's SOA life cycle
- Define SOA governance
- Explain the need for SOA governance
- Explain IBM's SOA governance offerings for establishing SOA governance within an organization
- Explain IBM's SOA scenarios and describe how these support adoption of SOA within an organization

Course outline

- SOA overview
- SOA design principles
- Exercise: Case study overview

- SOA use of standards
- Exercise: Demonstration of Web services
- IBM SOA Foundation - product overview
- SOA Foundation - governance
- Exercise: Demonstration of governance
- SOA Foundation - model
- Exercise: Demonstration of service identification and specification
- SOA scenarios overview
- Exercise: Identifying and applying SOA scenarios to the case study
- SOA Foundation - assemble and deploy
- Exercise: Demonstration of service deployment and assembly using SCA
- Service management and security
- Exercise: Demonstration of IBM Tivoli Composite Application Manager for SOA

Course schedule

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Start date	Location	Class lang.	Price	Class #
02 Nov 2009	Durham/Raleigh, NC	ENGLISH	USD \$1,450.00	TCSL
02 Nov 2009	Live Virtual Classroom, 99	ENGLISH	USD \$1,450.00	UCHJ
12 Apr 2010	San Fran/ Foster City, CA	ENGLISH	USD \$1,450.00	UOIN
24 May 2010	Atlanta, GA	ENGLISH	USD \$1,450.00	UPJE

Designing SOA Solutions Using IBM SOA Foundation



[View schedule and enroll](#)

Interested in bringing a class to you? [Onsite training](#)

Overview

Course code	WS008	Skill level	Basic
Duration	3.0 days	Delivery type	Classroom (Hands-on labs)
Course type	Public or Private on-site		
Public price	USD \$2,175.00 plus tax		

This course helps students develop the skills needed to design SOA solutions. You'll learn about SOA design principles, patterns, and IBM methodologies for SOA design, as well as SOA Foundations products that can be used to gather requirements, identify services, model business processes, and realize SOA solutions.

WebSphere/SOA/XML Certification

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Special note

IBM Education Advantage Program Eligibility

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Audience

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- Applying Rational Unified Process (RUP) based software development methodologies and techniques
- Modeling software architectures using UML 2
- Using tools and runtime including Rational Software Architect, WebSphere Business Modeler, WebSphere Integration Developer, and WebSphere Process Server

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This course is *not* intended for infrastructure architects.

Prerequisites

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- Describe SOA and explain how it relates to contemporary software architectural styles
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Skills taught

After completing this course, you should be able to:

- Assess strategies for SOA adoption
- Describe SOA architecture and design principles

- Review Rational Unified Process (RUP) disciplines for SOA development
- Describe the service oriented modeling and architecture (SOMA) methodology for service development
- Describe the tooling for capturing business requirements and goals for SOA
- Describe the purpose of business modeling in SOA
- Review business process models in IBM WebSphere Business Modeler
- Follow the process guidance defined in SOMA for service identification, specification, and realization
- Review UML service models
- Describe SOA realization patterns

Course outline

- Course introduction
- Adopting a service-oriented architecture
- SOA architecture and design
- Process and methods
- Business modeling
- Service identification
- Information architecture and SOA
- Service specification
- Role of enterprise service bus in SOA
- Service realization patterns
- Implement the process
- Service registry and SOA

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Start date	Location	Class lang.	Price	Class #
04 Nov 2009	Durham/Raleigh, NC	ENGLISH	USD \$2,175.00	TCSN
04 Nov 2009	Live Virtual Classroom, 99	ENGLISH	USD \$2,175.00	UCHK
14 Apr 2010	San Fran/ Foster City, CA	ENGLISH	USD \$2,175.00	UOIQ
26 May 2010	Atlanta, GA	ENGLISH	USD \$2,175.00	UPJF