SOA Architect Certification Self-Study Kit Bundle

A Certified SOA Architect has demonstrated proficiency in the mechanics of service-oriented computing through the mastery of patterns, principles, practices, and industry technologies required to engineer modern service-oriented solutions. This certification bundle provides you with the self-study materials you need to prepare for the exams required to complete the SOA Architect Certification.

The bundle includes the following self-study kits:

**SOACP Module 1 Self-Study Kit: Fundamental SOA & Service-Oriented Computing (Exam S90.01)**
An overview of key concepts, terminology, technologies, benefits, and impacts of SOA, service-oriented computing and service-orientation.

**SOACP Module 2 Self-Study Kit: SOA Technology Concepts (Exam S90.02)**
A study of the primary technologies used to build service-oriented solutions, with an emphasis on XML and modern Web-based services technologies.

**SOACP Module 3 Self-Study Kit: SOA Design & Architecture (Exam S90.03)**
An exploration of the service-oriented architectural model and the service-orientation design paradigm, including in-depth coverage of service compositions and runtime service roles.

**SOACP Module 8 Self-Study Kit: Advanced SOA Design & Architecture (Exam S90.08)**
Advanced technology architecture topics, with an emphasis on complex cloud-based solution design, advanced design patterns, and hybrid deployment models and architectures.

**SOACP Module 9 Self-Study Kit: SOA Design & Architecture Lab (Exam S90.09)**
A hands-on lab providing a series of real-world exercises for assessing and establishing cloud computing technology environments.

For more information, visit www.cloudschool.com.

By purchasing these kits as part of this bundle you receive a 20% discount.
Text Books

This SOACP course module covers a range of in-depth topics that are described in the course booklet(s) and further elaborated by detailed technical coverage and case study examples in the accompanying SOA Principles of Service Design, Service-Oriented Architecture: Concepts, Technology, SOA Design Patterns, SOA with REST: Principles, Patterns & Constraints for Building Enterprise Solutions with REST, SOA Design Patterns, and Next Generation SOA: A Concise Introduction to Service Technology & Service-Orienta-
tion text books. For ordering information, visit www.soaselfstudy.com.
SOACP Module 1: Fundamental SOA & Service-Oriented Computing

This course provides a well-rounded, end-to-end overview of service-oriented computing, service-orientation and SOA. Attendees benefit from this fundamental coverage by gaining an understanding of common terms, concepts and important industry developments.

The following primary topics are covered:

• Strategic Goals of Service-Oriented Computing
• Fundamental Service-Oriented Computing Terms
• Concepts relating to Services, Service-Oriented Architecture and Service Compositions
• Introduction to the Service-Orientation Design Paradigm and related Principles and Concepts
• SOA Project Delivery Approaches and Planning
• Introduction to the Service Delivery Lifecycle, including Service-Oriented Analysis, Service-Oriented Design and Service Modeling
• SOA Adoption Impacts and Requirements
• Enterprise Service Bus, Web Services, REST Services
• Service Grids and Service Virtualization
• Cloud Computing and SOA Connection Points (separate 45 page supplement)

Duration: 1 Day

For more information, visit www.soaschool.com.

Text Book

This SOACP course module covers a range of in-depth topics that are described in the course booklet and further elaborated by detailed technical coverage and case study examples in the accompanying Next Generation SOA: A Concise Introduction to Service Technology & Service-Orientation text book from the acclaimed Prentice Hall Service Technology Series from Thomas Erl.

Self-Study Kit

The materials for this course module can be purchased separately as part of the Module 1 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.01 and are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 2: SOA Technology Concepts

This course focuses on modern Web industry standards and technologies that are establishing the foremost means of building services today.

The following primary topics are covered:

- Basic XML and XML Schema Concepts
- Overview of Standards Organizations
- Contrasting Component-Based Architecture with Web Services and REST Services
- Service Roles, Service Agents, Message Exchange Patterns (MEPs) and Service Activities
- Basic WSDL, SOAP and REST Concepts plus UDDI, Discovery and Service Registries
- Basic REST Service Concepts
- Web Service Anatomy (physical architecture)
- Context Management, Coordination, Atomic Service Transactions and Compensations
- Orchestration, WS-BPEL and Enterprise Service Bus (ESB) Topics
- Advanced Messaging, Reliable Messaging and Policies
- REST Services, Contracts, Resources and Messaging
- REST Constraints and Architectural Goals

Duration: 1 Day

For more information, visit www.soaschool.com.

Text Books

This SOACP course module covers a range of in-depth topics that are described in the course booklet and further elaborated by detailed technical coverage and case study examples in the accompanying Service-Oriented Architecture: Concepts, Technology and Design and SOA with REST: Principles, Patterns & Constraints for Building Enterprise Solutions with REST text books from the acclaimed Prentice Hall Service Technology Series from Thomas Erl.

Self-Study Kit

The materials for this course module can be purchased separately as part of Module 2 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.02 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 3: SOA Design & Architecture

This course delves into the service-oriented architectural model and the service-orientation design paradigm and establishes the unique characteristics and dynamics that constitute service-oriented solution logic.

The following primary topics are covered:

- History of Service-Orientation and SOA
- SOA Theory Fundamentals
- Service-Orientation vs. “Silo”-Based Design
- Distinguishing Characteristics of the SOA Model
- Understanding Services and Service Capabilities
- Complex Service Composition Design, Composition Runtime Roles and Responsibilities
- The Eight Design Principles of Service-Orientation
- Contract-First Design, Standardized Service Contracts and Uniform Contracts
- Service Loose Coupling and Coupling Types, Service Abstraction and Information Hiding
- Service Reusability and Agnostic Design, Service Autonomy and Runtime Control
- Service Statelessness and State Deferral, Service Discoverability and Interpretability
- Introduction to SOA Design Patterns

Duration: 1 Day

For more information, visit www.soaschool.com.

Text Book

This SOACP course module covers a range of in-depth topics that are described in the course booklet and further elaborated by detailed technical coverage and case study examples in the accompanying SOA Principles of Service Design text book from the acclaimed Prentice Hall Service Technology Series from Thomas Erl.

Self-Study Kit

The materials for this course module can be purchased separately as part of the Module 3 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.03 and are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 8: Advanced SOA Design & Architecture

This course provides an in-depth exploration of service-orientation, service-oriented architecture and SOA design patterns, including those that relate to the Enterprise Service Bus (ESB) and Orchestration platforms.

The following primary topics are covered:

• Defining a Service-Oriented Architectural Model and SOA Architecture Types
• Fundamental and Advanced SOA Design Patterns
• Designing SOA with Service Agents and Supporting Multiple Protocols
• Legacy Encapsulation and ESB Design
• Asynchronous and Event-Driven Messaging, Message Routing and Reliable Messaging
• Global and Domain-Level Policy Enforcement and Positioning of Business Rules
• Orchestration Architecture Design, State Deferral and Service Grids
• Service Data Replication, Cross-Service Transactions and Compensating Transactions
• Data Transformation and Protocol Bridging
• ESB and Orchestration as Compound Patterns

Duration: 1 Day

For more information, visit www.soaschool.com.

Text Books

This SOACP course module covers a range of in-depth topics that are described in the course booklet and further elaborated by detailed technical coverage and case study examples in the accompanying SOA Principles of Service Design and SOA Design Patterns text books from the acclaimed Prentice Hall Service Technology Series from Thomas Erl.

Self-Study Kit

The materials for this course module can be purchased separately as part of Module 8 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.08 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 9: SOA Design & Architecture Lab

As a continuation of course modules 3 and 8, this hands-on workshop allows attendees to apply the technologies, concepts, techniques, patterns and principles previously covered in order to complete a set of design exercises.

Both individual and group exercises are provided, requiring participants to solve a number of interrelated problems with the ultimate goal of creating their own design specifications.

The instructor works closely with participants to ensure that all exercises are carried out completely and accurately. Attendees can voluntarily have any exercises reviewed and graded as part of the class completion.

Duration: 1 Day

For more information, visit www.soaschool.com.

Text Books

This SOACP course module covers a range of in-depth topics that are described in the course booklet and further elaborated by detailed technical coverage and case study examples in the accompanying SOA Principles of Service Design and SOA Design Patterns text books from the acclaimed Prentice Hall Service Technology Series from Thomas Erl.

Self-Study Kit

The materials for this course module can be purchased separately as part of Module 9 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.09 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.