SOA Java Certification
Self-Study Kit Bundle

A Certified SOA Java Developer has proficiency with the development of distributed solutions using Java programming technologies and tools, and has attained proven mastery of applying service-orientation to the programming and implementation of services-based Java solutions. This certification bundle provides you with the self-study materials you need to prepare for the exams required to complete the SOA Java Developer 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 and terminology associated with SOA, service-oriented computing and service-orientation, including a study of strategic benefits and impacts and an overview of modern SOA technologies and innovations.

**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 service 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 5 Self-Study Kit: SOA Technology Lab (Exam S90.05)**
A hands-on lab during which students apply and work with industry SA technologies through a series of tutorials and exercises.

**SOACP Module 10 Self-Study Kit: Advanced Web-Based Service Technology (Exam S90.10)**
A range of specialized topics pertaining to REST service design and technology, WS-Policy definitions and attachments, and cloud computing utilization models for cloud-based services.

**SOACP Module 11 Self-Study Kit: Service Development with Java (Exam S90.11)**
Topics focused on the application of patterns and service-orientation principles to distributed Java technologies and standards for the development of services, with an emphasis on Web service and REST service technologies.
SOACP Module 12 Self-Study Kit: Service Development Lab with Java (Exam S90.12)
A hands-on lab during which technologies pertaining to industry Web standards and Java-based technologies are put into practice for the development of shared services and service-oriented solutions.

For more information, visit www.soaschool.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, Next Generation SOA: A Concise Introduction to Service Technology & Service-Orienta-
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 5: SOA Technology Lab

In this lab-style course attendees are required to work hands-on with contemporary service technologies. Participants study the primary elements of industry-standard Web languages and protocols in order to learn the internal structure of service contracts and messages.

The following primary topics are covered:
- Fundamental XML Syntax and Application
- XML Schema Structure
- Fundamental XML Schema Language Elements
- WSDL Definition Structure and How WSDL Relates to XML Schema and WS-Policy
- Namespaces and XML Schema and WSDL Definitions
- Fundamental WSDL Language Elements
- SOAP Message Structure and How SOAP Relates to WSDL and XML Schema
- Fundamental SOAP Language Elements
- WS-BPEL Process Definition Structure and How WS-BPEL Relates to WSDL
- HTTP Methods, Uniform Contracts and Web-Centric Architecture

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 Web Service Contract Design & Versioning for SOA 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 5 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.05 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 10: Advanced Web-Based Service Technology

This hands-on course comprehensively covers important Web-based service industry technologies pertaining to REST services, Web service policies and cloud computing.

The following primary topics are covered:

- REST-style Service Architecture Characteristics
- REST Constraints, Uniform Contract Considerations, State Management Requirements and Messaging
- REST Service Resource Identification, Definition, Representations, Hypermedia and Application State
- HTTP Methods, Media Types, Headers
- Service Policy Design
- WS-Policy Definitions, Language Elements and Attachment Mechanisms
- Policy Assertion (including Optional/Ignorable)
- Cloud Computing Design Considerations
- Characteristics of a Cloud
- Cloud Delivery Models (SaaS, PaaS, IaaS)
- Cloud Deployment Models (Public, Private, Community, Hybrid)
- Cloud Computing Mechanisms

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 *Web Service Contract Design & Versioning for SOA* 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 10 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.10 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 11: Service Development with Java

This course acts as a continuation of course module 15 by introducing a range of advanced SOA Governance topics.

The following primary topics are covered:
- Cloud Governance Automation Tasks and Technology Types
- Common Cloud Governance Technology Products
- Cloud Service Information and SLA Governance
- Governing Cloud Adoption Planning
- Mapping a Cloud Governance Framework to Cloud Architectural Layers
- Policy-driven Cloud Governance
- Mitigating Cloud Computing risks with a Cloud Governance Framework

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 with Java, 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 11 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.11 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.
SOACP Module 12: Service Development Lab with Java

As a continuation of course module 11, this lab-style course provides a series of hands-on exercises that enable participants to apply service-orientation and SOA practices first-hand, using Java development technologies. Lab exercises are provided in both printed and electronic formats and require participants to solve a number of inter-related development problems.

This course can be delivered with workstations that contain Java development tools, or completed using only the paper-based version of the exercises. In both cases, attendees receive a CD containing complete project files and source code for all exercises.

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 with Java*, *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 12 Self-Study Kit, which includes additional materials and study aids. These materials are designed to prepare you for Exam S90.12 but they are also suitable for general remote, self-paced study purposes.

For ordering information, visit www.soaselfstudy.com.