

TT7030 SOA Governance and Infrastructure



SOA Governance and Infrastructure is a two day in-depth SOA training workshop geared for enterprise stakeholders who need to develop a deeper, practical understanding of how and where to place controls to increase the value and agility of an enterprise's catalog of services. This course explores what separates an ad hoc set of web services (NOT SOA) from a managed, vibrant, reusable catalog of enterprise services (definitely SOA). It provides an overview of the entire spectrum from the promise of cloud computing to the grit of XML content.

► Course Overview

Organizations are struggling with how to translate SOA's vision into practical terms and concepts. This course builds on the foundation established by **Understanding SOA (TT7000)** or an equivalent base of knowledge and understanding about SOA.

The objective of this course is to provide students with hands on experience in effectively implementing governance as part of the common framework for services. Students will have an opportunity to explore many of the concepts and issues that are integral to bringing SOA governance into an organization. This course highlights practical issues involved in implementing governance at an enterprise level. The goal of this course is to empower students with the knowledge and foresight they need to lead and participate in establishing both strategic and tactical practices and measures for a SOA.

Working in a dynamic learning environment, students will be able to:

- Identify the motivations behind developing services and, on a higher level, a SOA-based approach to solving problems
- Understand what characteristics make a service reusable and the issues integral to reusability
- Appreciate and discuss the importance for a common framework in both technical and organizational terms
- Relate to agility in terms of business, technology, and information
- Manage an enterprise's service portfolio
- Leverage existing governance assets in transitioning to a SOA orientation

If your team requires more advanced materials or custom topics, this course may be easily adjusted to accommodate. We offer many additional SOA classes which may be blended with this course for a track that best suits your development objectives.

► Experiential Learning – Course Structure

Attending students will be led through a series of advanced topics comprised of integrated lectures, group discussions and

COURSE SNAPSHOT

Duration: 2 days

Skill Level: Intermediate

Focus: Implementing SOA governance within an organization

Audience: Technical managers, stakeholders, executives and developers, architects and analysts.

Course Format: Expert lecture combined with open discussions and high-level demonstrations. Students do extensive pen and paper work - no machines required.

Delivery Options: Available for onsite private classroom presentation, or live online / virtual presentation

Customizable: Yes

comprehensive demonstrations. This is not a programming course. The course provides a solid foundation in basic terminology and concepts, extended and built upon throughout the engagement.

► Audience & Pre-requisites: Who Should Attend

This is an **intermediate** level SOA training course, designed for people who need to understand and manage existing or upcoming SOA projects. We assume students have taken **TT7000 Understanding SOA** or have an equivalent level of knowledge.

► Related Courses – Suggested Learning Path

Take Before: Students should have basic development and analysis skills and a working knowledge in the following topics, or attend one or more of these courses as a pre-requisite:

- **TT4000 Understanding Internet Architectures**
- **TT7000 Understanding SOA Technical Overview** or **TT7001 Understanding SOA for Non-Technical Stakeholders**

Take Instead of After: We offer other courses that provide different levels of knowledge or focus:

- Choose from our unique SOA Seminar Series topics: **TT7010 SOA Management; TT7015 SOA Leadership; TT7020 SOA Processes**
- For developers those focusing on using SOA and Web Services, please consider **TT7150 Mastering Service-Oriented Architecture (SOA) and J2EE Web Services.**

- For team members who just need to focus on analysis or design should consider **TT7110 SOA Analysis** or **TT7100 SOA Analysis & Design**
- For basic developer training in web services, consider: **TT7300 Core Web Services for J2EE (or JEE) Developers**, or the more in-depth **TT7301 SOA and Web Services for J2EE (or JEE) Developers**. We also offer other web services and SOA courses that integrate J2EE-JEE, XML, SOA and other topics. See our course list for details.

Take After: We offer a variety of introductory through advanced security, development, project management, engineering, architecture and design courses. Students may want to consider the following topics as a follow-on to this course.

- **TT7040 Understanding SOA Security**
- **TT8500 Secure SOA (comprehensive)**
- Additional programming, SOA and web services topics – Intro through Advanced
- Secure coding, development and design topics
- Software engineering or design topics
- Architecture & Analysis courses

Please note all development courses may also be offered in other programming languages or tailored to suit your unique requirements. We will work with you to come up with the best solution to ensure your needs are met, whether we customize the material, or devise a different educational path to help your team best prepare for this training. Please contact us for recommended next steps tailored to your longer term education, project or development objectives.

► **Experiential Learning: Hands-On Labs**

This class is “technology-centric”, designed to train attendees in essential analysis and design skills, coupling the most current, effective techniques with the soundest industry practices.

This workshop is about **50% dynamic lab exercises** and **50% lecture**. Throughout the course students will be led through a series of progressively advanced topics, where each topic consists of lecture, group discussion, comprehensive hands-on lab exercises, and lab review. Multiple detailed lab exercises are laced throughout the course, designed to reinforce fundamental skills and concepts learned in the lessons. At the end of each lesson, developers will be tested with a set of review questions to ensure that he/she has fully understands that topic.

► **Bridging the Gap: Collaborative Mentoring Services**

Our team of technical experts is also available for various project assistance services to help your team apply their newly-learned classroom skills to their real-world project in a meaningful, practical way, right after the training ends.

Our custom **collaborative mentoring programs** integrate with or extend your team’s classroom training experience, to help bring these skills into existing (or inherited) legacy projects, into new projects, or to simply keep your students sharp them in between projects. Our programs can be highly involved and closely integrated with your project timelines or group development efforts, or can be less involved, serving simply as an overarching educational framework or ‘spot check’ to keep your group skills moving forward in between projects or waiting for projects to begin. Please contact us for details about this exciting custom service.

Workshop Topics Covered

Session: SOA Reviewed

- Service Defined
- SOA Defined
- Organizational Framework
- Technical Framework
- Orchestration
- Reusability
- Services vs SOA
- SOA Maturity From Organizational Perspective
- Typical Adoption Process
- Service Integration Maturity Model (SIMM)

Session: Realizing SOA

- Strategic vs. Tactical Perspective
- Recognizing Existing IT Governance
- Understanding SOA Governance
- Leveraging Legacy Governance

Session: Congruence: Business and IT

- Business Goals vs. IT Goals
- Business Goals Driving IT Goals

Session: Agility: Adapting to Change

- Business Processes
- Technology
- Information
- Services Portfolio

Session: Paradigm for Governance

- Overview
- Applied to Business Processes
- Applied to Technology
- Applied to Information
- Applied to Services Portfolio

Session: Governance Components

- Life Cycle of Service Development
- Life Cycle of Service

- Business Agility Strategies
- Technical Agility Strategies
- Information Agility Strategies
- Managing the Service Portfolio
- Service Realization
- Service Assessment and Compliance
- Service Security

Need more info? Please note that a more detailed outline of the course table of contents, lists of lab exercises and project descriptions is available. Please contact us at Training@triveratech.com for info.

Need courseware? This course is fully customizable, and also available for license with complete support for qualified organizations. Please contact Courseware@triveratech.com for details.

► Why Work With Trivera Technologies?

Whether you are a project leader choosing a training provider or course to bring to your team, or an organization or an instructor looking to potentially license or use course materials to train your own team, or a student looking for an exciting, targeted training class to attend or to recommend to your colleagues - **Our single focus is to make YOUR training event or experience a success.** Here's why choosing Trivera Technologies as your education resource takes the risk right out of your decision making process...

- **We provide a solid SOA architecture, design and implementation development foundation.** Students will learn how to develop (and reuse!) essential SOA development and design skills and concepts properly, using best design practices, grounding them for advanced curriculum. Students will be prepared for designing and implementing real solutions, right after the class ends. Students will learn the importance of developing and maintaining well-designed, reusable and secure applications and services.
- **Our courses are focused - no "fluff" included.** We offer more than a "laundry list" approach to teaching. All lessons have clear objectives, are fundamental to core SOA development and design practices, and are reinforced by hands-on labs and solid practical examples. Each lesson has performance driven objectives that ensure students will learn technologies and skills core to fundamental server-side application design – nothing more, nothing less.
- **Our materials are comprehensive, and current.** Our comprehensive manuals include not only a hard copy of the course presentation, but also detailed reference notes, pertinent diagrams and charts, current lists of suggested online resources and articles, and often technical tutorials or white papers geared to the topics at hand. Our dedicated course development team keeps everything as current as possible with both industry trends and software editions to ensure your team is getting the most current information available.
- **We set you up!** Hands-on courses also include our unique materials for each student, complete with our **LoadNGo Instant Classroom** course set up DVD, software, and a multitude of learning resources that complement the course. Run the course right off the DVD – minimal set up for your company – maximum results for your students.
- **We foster "Learning by Doing".** Progressive labs are designed in such a way that students get a firm grasp on fundamental skills while they work toward designing a complete application. All labs are take-home, and all solution code is presented in an easy to use self-study format for future use and review.
- **True content ownership gives us flexibility & quality above the rest.** These course materials are wholly-owned by our company and fully customizable - at little or no cost- to help you best meet your learning objectives. We write and own what we teach. We have many dedicated experts available worldwide to instruct your team, and can provide services around the globe, either locally or virtually. We work closely with you to produce the most effective events and materials for your team, within your desired timeframe and budget.
- **We have to adhere to higher standards.** As a courseware provider to other organizations, training firms or independent instructors, our content and hands-on lab materials are licensed internationally by dozens of firms, and are therefore subject to very stringent quality requirements. Not only will your organization benefit from our own technical team's technical expertise, but also the feedback of hundreds of students and trainers using these materials, worldwide, on a regular basis. This unique fact guarantees that our materials are not only robust and interesting, but also technically correct, current and of the highest quality and usability.
- **We bring years of practical, current experience into the classroom and content.** Our instructors and course authors are also skilled mentors, Java, JEE/JavaEE, J2EE, .Net, Agile, SOA, and web services developers, architects and security-oriented professionals. We believe that learning, using and maintaining solid software execution and delivery methods are as important as gaining sharp coding skills. Best Practices for software development and execution, beyond technical coding skills, are enforced throughout all of our courses and discussions. Our team brings this extensive experience into every classroom and engagement. Our team has trained thousands of students.
- **We're skills-centric.** Although our team has extensive experience using a variety of tools and solutions, our core content is "technology-centric". Our aim is to teach you the best skills and solutions out there – not to sell you software from any particular vendor.
- **We're technical publication authors, contributors and industry speakers.** Our team was selected to write the online *J2EE, EJB, EJB CMP-CMR and Web Services Tutorial Series for IBM developerWorks®* (www.ibm.com) These are the same instructors who train our classes and author the courseware. Most of our trainers/consultants have also authored additional articles on web services, EJB, Struts, J2EE / JEE and advanced Java topics, and are recognized speakers and presenters on the industry technical seminar circuit. Our team is comprised on several successful published authors. Members of our team have written or contributed to: *Eclipse Kick Start, Mastering Eclipse; Professional Jakarta Struts; Using Java Tools for Extreme Programming; Mastering Resin; Mastering TomCat and others.*
- **Our services are guaranteed.** Whether you're a stakeholder organizing your firm's educational services, a student in our live or virtual classroom or a trainer using our materials to educate your own client or team – **Our core mission is to make YOU a success in the classroom.**

► **For Additional Information**

Need dedicated training? All courses can be brought onsite or run virtually for a **private presentation**, customized to suit your unique requirements or goals. Please contact Training@triveratech.com for course details, Public Schedule dates and locations, and Special Discount Offers.



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