



SOA Web Services Testing

Virtual Learning **Program**

Overview

Service-oriented architecture is a way of designing and developing software 'services' that can be deployed and managed across an enterprise environment. It has the potential to deliver agility, flexibility and help reduce cost. As SOA begins to be the mainstay of IT infrastructure, actively and aggressively testing Web services has become crucial. Only by adopting a comprehensive testing approach that includes functional, performance, interoperability and vulnerability testing, enterprises can ensure that their SOA is robust, scalable, interoperable, and secure

In this direction, the course "SOA Web Services Testing" has been designed to help testers understand, experiment, learn and apply the concepts surrounding the testing of SOA applications in a very structured and formal manner.

Program Highlights

Self paced Online Learning Program with 58 Learner Hours

Live Mentor Support for Q&A sessions

Breakout sessions with mentor & co-participants

Student workbook with assignments and quizzes

Formal online Final Examination

Detailed learning report to organization L&D Team

Course completion certificate by QAI Global Institute

Designed by SOA Practitioners and Experts

Learning Objectives

This program primarily focuses on the following core objectives:

- Understand the SOA, its Principles and Benefits
- Understand WebServices and implementation model for SOA
 - Understand the key characteristics of WebServices
 - Explore different aspects of WSDL
- Understand XML concepts
- Understand paradigms needed for testing WebServices
- Explore different Test Strategies for SOA-based applications
- SOA Testing and Opensource Tools
- Understand functional, compliance and load testing of WebServices
- Learn bug-finding ideas in testing WebServices
- Learn to use SoapUI for Functional, Performance & Security testing

Program Coverage

Module 1 Introduction to Service Oriented Architecture

Module 2 XML Primer

Module 3 Understanding Web Services Module 4 SOA and Web Services Testing

Module 5 Introduction to SoapUI

Module 6 Mocking Services in SoapUI Module 7 Functional Testing in SoapUI

Module 8 Scripting in SoapUI

Module 9 Security Testing in SoapUI

Module 10 Performance Testing in SoapUI

Target Audience

The course is appropriate for both Novice & Experienced Testers who may or may not have exposure to SOA Web Services testing and fall under the following categories:

- **Program Managers**
- Test Managers / Quality Managers
- Test Leads / Quality Leads
- Test Analysts / Test Engineers

Edista Testing Institute

Edista Testing Institute [ETI] is a workforce development partner for leading IT organization globally enabling Acquisition, Transformation, Recognition and Engagement solutions for Workforce Development in IT & IT Enabled Services. Setup in 2008, the focus of the organization has been to enable IT organizations create a sustainable competitive advantage through interventions to solve the Workforce Challenges through innovative models and methods for building capacity, enhancing capability and engaging the community of the employed professionals in business critical skills.

QAI Global Institute

QAI Global Institute conducts instructor led trainings (ILT), career programs, exam preparatory training and certification for both individuals and organizations. QAI has trained over 140,000 individuals and certified over 40,000 professionals in over 15 countries. Today, the Institute caters to a wide variety of industries and provides access to a wealth of concepts and skill building reinforced through consulting, training, assessments, benchmarking, certification, conferences, and eLearning. The institute supports the IT practitioner by facilitating corporate and individual membership programs.

Program Flow

Course **Case Study** Case Study **Expert Talk & Case study** Orientation Self Study Discussion & Self Study -Self Study Discussion & **Mentor Support** submission & & Case Study Submission -Module 05 - 07 Module 8 to 10 Module 01-04 Submission for Module evaluation Briefing Module 5 to 7 Module 1 to 4 8 to 10 Day 2 to Day 10 Day 11 to Day 15 to Day 20 to Day 26 to Day 1 Day 37 Day 14 Day 20 Day 40 **Get Oriented** Get Evaluated **Get Upgraded Get Coached** Get Upgraded **Get Coached Get Upgraded** Fundamentals of SOA XML & its role in · Submit case study Course overview Resolve queries SoapUI and its Resolve queries Scripting in soapUI Using soapUI Exp[ert Session Program flow features · Case study Security Testing · Get graded Case study being Technology · Create web service fundamentals in Discuss Case study Highlights solutioning proxy • Simulate web Case Study agnostic Submission Submission soanIII Web Service guidelines Performance Overview auidelines Learning setup SOA & Web Service Conceptulize Conceptulize Testing strategies services Create functional Set Expectation Testing Fundamentals solution solution in soapUI Peer Discussions & Peer Discussions & Set protocols Apply concepts tests in soapUI Learn & Practice Learn & Practice Understand Learn & Practice Learn & Practice Learn & Practice **Get Evaluated** Program Flow Concepts learned in Modules assigned · Hands on exercises Real time application · Hands on exercises Understand inputs Real time Case Study Hands on exercises application of · Case study of concepts Case study case study Discuss & impovise Deliverables Case study concepts · Peer Group Case study objective · Peer Group Knowledge from · Team Structure Peer Group reviews Case study objective Peer Review format discussion discussion expert Peer Review format Apply Concepts · Attempt Quiz Attempt Quiz Apply concepts Apply Concepts · Apply concepts Peer Group · Apply concepts Peer Group discussion discussion Solutionize Solutionize Submit solution · Submit solution Provide • Module 8-10 Debrief Module 5 to 7 Learning objectives Module 1 to 4 Solution Design · Solution Design By stake holders Inputs from Mentor Program coverage Case Study understanding Case Study understanding Session from Grade case study Schedule Discussion Forum Do's and Don't's of Discussion Forum Do's and Don't's of Expert Provide inputs to Workbook Case Study Case Study Solutioning solutioning teams **Breakout Session** Workbook Final Exam format Mentor support · Mentor support Feedback platform 1 HR 10 HRS 6 HRS 10 HRS 8 HRS **13 HRS** 1 HR

Contact Us

Objective

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Student Role

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Program Takeaways

Case Study Review

- Well designed and structured courseware
- Training Workbooks

Program Feedback &

ETI Role

- 58 Learning Hours
- Comprehensive learning approach based on action learning.

Program Feedback &

- Case Study Orientation.
- 2 Months mentor support.

- 3 Months access to content.
- Support on assignments and case study.
- Online breakout sessions with peers and mentors.
- Online guiz with every module.
- Online final certification examination
- · Certification by QAI Global

Program includes:

- Recorded content of 10 modules
- Live Mentor Support
- · Case Study

- Assignments
- Quizzes
- QAI Global Certification

Special incentives for Universities & Corporates on bulk purchases



Program

Closure

Day 45

Receive Certificate

· Receive Certificate

Learning Recap

Conclude queries

Certification Prep

3 HRS

Prep Study

Online Test

Prep sessions

Final Exam

Scoring

Compete