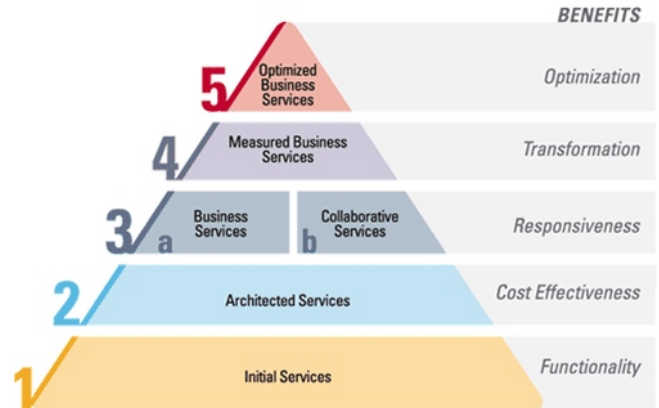


SOA

Service Oriented Architecture

- ▶ Optimization
- ▶ Transformation
- ▶ Responsiveness
- ▶ Cost Effectiveness



Corporate Trainer's Profile

Corporate Trainers are having the experience of 4 to 12 years in development , working with TOP CMM level 5 companies (Project Leader /Project Manager) qualified from NIT/IIT/IIM and work exp in USA and UK.



CMM (Capability Maturity Model) level Project Standard:-

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5. Get the Oportunities to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

Projects



SOA

SOA Training Course Syllabus

A Service Oriented Methodology
Introduction to a SOA adoption roadmap
Service lifecycle
Three analysis approaches
Service oriented analysis
Service oriented design
Introduction to service oriented patterns
Advantages of SOA
Traditional EAI Approach
Problems With Traditional EAI Approach
Enter Service Oriented Architecture (SOA)
Build the Services
We Can Easily Change the Process
Change Flow Using Legacy Approach
Replacing an Application
Other Advantages
Business Advantages
Adoption Stages
Defining a Service in WSDL
Sample WSDL Document Structure
One-way
Request-Response
Solicit-Response
Syntax
SOAP Binding Example
WSDL SOAP Binding Extensions
Simple Object Access Protocol (SOAP)
Objectives
SOAP Overview
Why do you need SOAP?
SOAP In Protocol Stack
Header Attributes
SOAP Body
SOAP Fault
Document/Literal Style
Document/Literal Wrapped Style
Details of the Wrapped Style
Service Oriented Analysis & Design

Objectives

Stages of SOAD
Identifying services
Producing service specifications
Functional areas of the business.
Services belonging to these functional areas
Functionalities belonging to these services
Documenting service hierarchy
Best practices

SOA

Summary

Enterprise Service Bus (ESB)
Service invocation
Legacy system Integration
Web services to the Rescue
The role of ESB in SOA
Security and ESB
Business Process Implementation
Business Process Diagram
Challenges in Process Implementation
BPEL4WS
Partnership
Example: a Buy-Sell Partnership
Modeling Partnership in BPEL
Variables
Simple Activities
Invoke Activity
Structured Activities
Lifecycle of Process Development
Follow Integration Patterns
Example: A Simple Process
Messaging Architecture
What is messaging and why do we need them?
How to use messaging in SOA?
SOAP over JMS details.
Modeling services well suited for messaging.
Correlation and why do we need them?
How to use correlation in SOA.
How to implement publish subscribe in SOA?
Sample scenarios
Layered Architecture
The layers pattern.
Classic three-tier architecture.

Connecting to the domain layer.
Linking to the User interface.
Using packages to decompose a system.
Avoiding mutual dependencies.
What is layering and why we need them?
Application service layer
Business service layer
Orchestration service layer
Transaction Management
The ACID properties.
Local vs. distributed transaction.
New challenges with transaction in SOA.

SOA

Transaction from a specific service call.
Transaction in a long running business process.
What is compensation and why do we need them?
How to implement compensation?
Software Platform for SOA
Software Tools for SOA
The Need for a Tool
SOA Development Life Cycle
Oracle BP Manager
Microsoft BizTalk Server 2006
Rational Application Developer (RAD)
Key Features
Web Services Support
Runtime Products for SOA
Conclusions
New implementation paradigms
The benefits of employing SOA
Review of common business goals
The risks associated with the SOA approach
Evaluating tradeoff strategies