



Learn Perform Mentor

Enterprise Architect Workshops

Custom Role-Based Practice for the Whole Team

Thank you for your interest in my custom Enterprise Architect Workshops. My name is Ramsay Millar, mentor and practice leader, integrate IT LLC. Please feel free to call me at (541) 490-1944.

IT Project failure is common, analysts report that "as many as 71 percent of software projects that fail do so because of poor requirements management, making it the single biggest reason for project failure." (CIO magazine). NIST claims that US business lost 30 billion/yr on software failures.

I have personally authored and delivered custom Enterprise Architect Workshops to hundreds of enthusiastic customers who are searching for better ways to improve the software delivery process.

Workshop attendees practice delivering project deliverables to carefully lead attendees through a carefully crafted Hands-on project scenario, practicing the many time saving features of Sparx EA. Our workshops are proven build your skills, improve quality and save you time. We are contracted by many diverse clients to facilitate and mentor your staff for the following reason:

1. Business Analysts who need to adopt proven methods & tools to improve business processes resulting in more satisfied customers, reduced costs and increased profits.
2. Analysts who need to develop requirements to close the gap between business intent and software solution to learn how to avoid traditional failures that cost money and lost opportunity.
3. Enterprise Architects who need to Design Architectures that improve re-use, improve business agility and flexibility during rapidly changing times to gain competitive advantage.
4. Software Development Manager's who wish to upgrade the team into evolving best practices, adopt powerful UML case tools and practice effective methods for improving the process of manufacturing software products.

I would be very interested in working together with you if your reasons for contacting me converge with my brief outline above. I would like to schedule a time to speak with you, listen to your interests and to share more focused information my Enterprise Architect Workshops.

Workshop Benefits

Enterprise Architect by Sparx Systems, a full life-cycle power tool that rapidly assists the modeling of all layers of the software delivery process from business process modeling, business rules, software requirements, systems analysis, design architecture, software engineering, through to deployment. Accelerate your Software projects with this intense, interactive workshop that emphasizes pragmatic modeling principles and techniques. Our mentors skillfully guide your staff and prove how to reap the benefits, while avoiding the pitfalls, when adopting and applying complex UML tools.

"Our customers keep telling us that we are more flexible and cost effective than the rest."

Sparx Systems Enterprise Architect UML certified Global Partner since October 2001

Please contact us directly call (541) 490-1944 or RMillar@in2grateIT.com

Who benefits by using Sparx EA?

Enterprise Architect by Sparx Systems is rapidly becoming recognized as a full life-cycle tool focused on every role across involved in the process of software delivery. We practice the process of leaving waterfall and going towards iterations of sharing responsibility for deliverables in both directions.



Business Analyst	Systems Analyst	Enterprise Architect	Software Developer	QA Manager	Project Manager
Increase customer communication	Early visibility to requirements	Design Business Driven Architectures	Requirements to Code as fast as possible	Generate test cases from use cases	Generate Project Stats from Use Case
Model Complex Business Processes	Model complexity early	Architecture is Use Case Driven	Integrate Model and Code	Generate Acceptance Test	Generate Use Case Metrics
Manage Scope	Analyze Use Case flows	Model Complex Re-use Object models	Re-factor Code	Generate Scenario Testing	Track Resource Allocation across the Life-Cycle
Gather Customer Goals	Model Screen Specs	Design SOA	Reverse Engineer	Generate Integration Tests	Use Case Breakdown structure
Focus on Value and Risk early	Model Data Specs	Design WDSL	Forward Engineer	Avoid Re-work with clear requirements	Project Stats Backlog items
Automate tedious chores	Find Business Objects in Use Cases	Model Enterprise Architecture	Edit Model or Code	Integrate Model with Test Suites	Cumulative Workflow Stats

You Will Learn How To

- Understand and effectively use all the many features of Sparx Systems Enterprise Architect
- Understand why and when every UML 2.1 diagram is used in a real project setting
- Leverage Enterprise Architect for requirements, documentation, design, coding, testing & Agile PM
- Avoid common failures and pitfalls when adopting next generation tools, techniques and methods
- Adopt evolving and proven best practices to avoid expensive re-work and restarts on your project

Workshop authored and facilitated by Mentor & Practice Leader

My workshops are facilitated to be highly effective and my many years of experience will accelerate your learning, practice and adoption of best practices, tools and techniques. Finally I offer:

- Flexible choices for course customization to ensure your project success
- Stress hands-on experience solving practical problems
- The opportunity to not only practice but bring project work into the classroom

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Enterprise Architect Workshops Suggested Course Configurations and Schedule

	am	pm
Monday	Chapter 1 Getting Started Using Enterprise Architect	Chapter 2 Business Analyst
Tuesday	Chapter 2 Business Analyst	Chapter 3 Requirements Analyst
Wednesday	Chapter 3 Requirements Analyst	Chapter 4 Systems Analyst
Thursday	Chapter 4 Systems Analyst	Chapter 5 Enterprise Architect
Friday	Chapter 5 Enterprise Architect	Chapter 6 Software Engineer Chapter 7 Project Manager

Course Name

1. Business Analysts, Requirements Analysts Tools & Best Practices (4 days)
2. Enterprise Architects, Analyst & Developer Tools & Best Practices (4 days)
3. Enterprise Architect Full life-cycle for the Whole Team (5 days)

Who Should Attend

This Hands-on Workshop directly benefits those involved in delivering a successful software product. Business Analysts, Systems Analysts, Design Architects, Software Engineers and QA engineers who need to upgrade skills to use advanced UML case tools in the full delivery of the life-cycle.

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Getting Started using Enterprise Architect

Role-Based Practice Workshops for the Whole Team

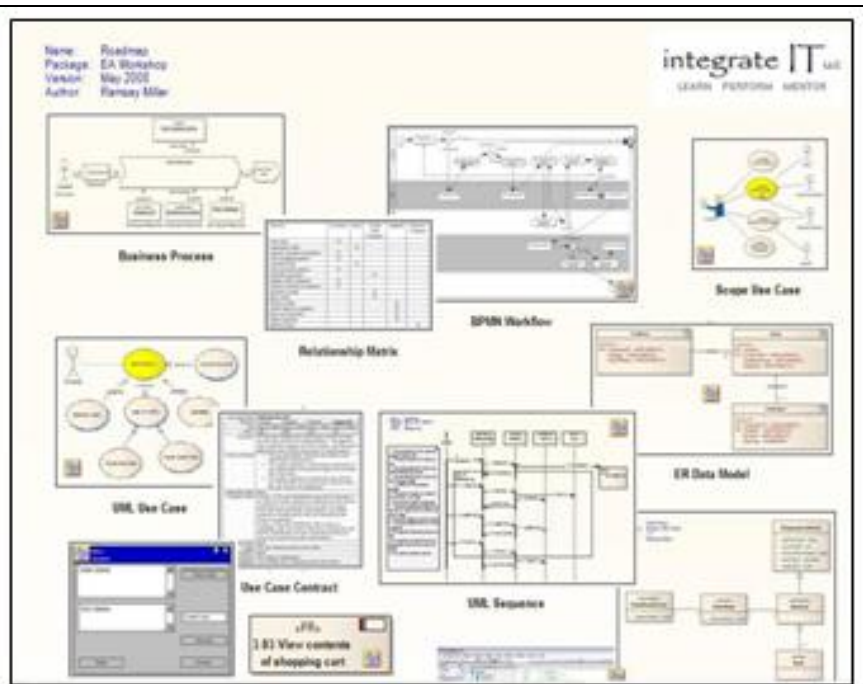
You Will Learn How To

- Understand All major features of Enterprise Architect
- To Organize your projects using UML and Extended Elements feature
- Comprehend all UML Basics & know the UML diagrams, why and when they are used
- Use the Enterprise Architect Toolbox effectively
- Use the Enterprise Architect Project Browser effectively
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Chapter Benefits - Accelerate your Software project with this intense, interactive workshop that emphasizes pragmatic modeling principles and techniques. This interactive modeling workshop shows how to reap the benefits, while avoiding the pitfalls, when adopting and applying UML 2.0. This workshop is for anyone involved across the life cycle of software development. UML allows the modeling of all layers of the software delivery process from business process modeling, business rules, software requirements, systems analysis, design architecture, software engineering, sw & hw architecture. Find out why Enterprise Architect is not your average UML modeling tool.

Chapter Lesson Plans - Getting Started using Sparx EA

- UML Basics
- Organizing your Project
- Project Browser – Do Now!
- UML Diagrams
- Workshop – Use Case Diagram
- Searching the Model – Do Now!
- Model Traceability
- Extended UML Features – Do Now!
- EA Major Features
- Using EA Help! – Do Now!
- Model Re-use
- Resource View – Do Now!
- Model Guardianship
- Settings & Team Standards
- Baselines & Version Control
- Security
- Advanced Tips and Techniques



Learn and Practice how to Model and Document Systems Effectively

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Business Analyst Role

Role-Based Practice Workshops for the Whole Team

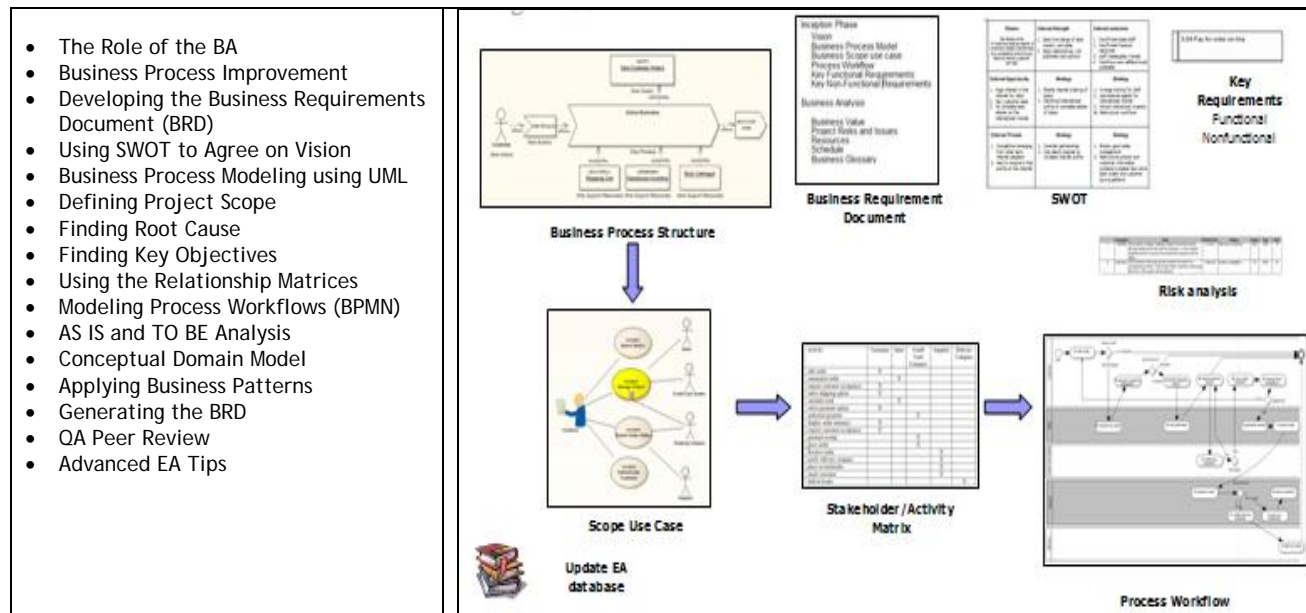
You Will Learn How To

- Structure Business Processes to improve business agility and match business driven goals
- Organize, Analyze and deliver Business Models using Business Process Modeling Notation (BPMN)
- Redesign workflow and information structures successfully for business process improvement
- Maximize process satisfaction by matching process workflow design to customer goals
- Apply UML Business Patterns to Effectively model, communicate and analyze the As-is and the To-Be Process
- Ensure Best Practices (IIBA, Practice UP, UML, Agile CMMI, avoid tool failures)

Chapter Benefits

Faced with an ever rapidly changing business environment, organizations are under pressure to effect dramatic performance improvements and to reduce costs of business transactions. Business process management (BPM) as specified by OMG is practiced by Leading Process Architects makes quantum leaps in productivity through redesign, innovation and the enabling power of effective technology. In this Workshop, you gain the critical knowledge, skills and practice needed to simply and effectively implement BPM within your organization. Find out why Enterprise Architect is not your average UML modeling tool.

Chapter Lesson Plans - Business Analyst



Learn UML Business Process patterns and BPMN Process Modeling by doing a project

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Requirements Analyst Role

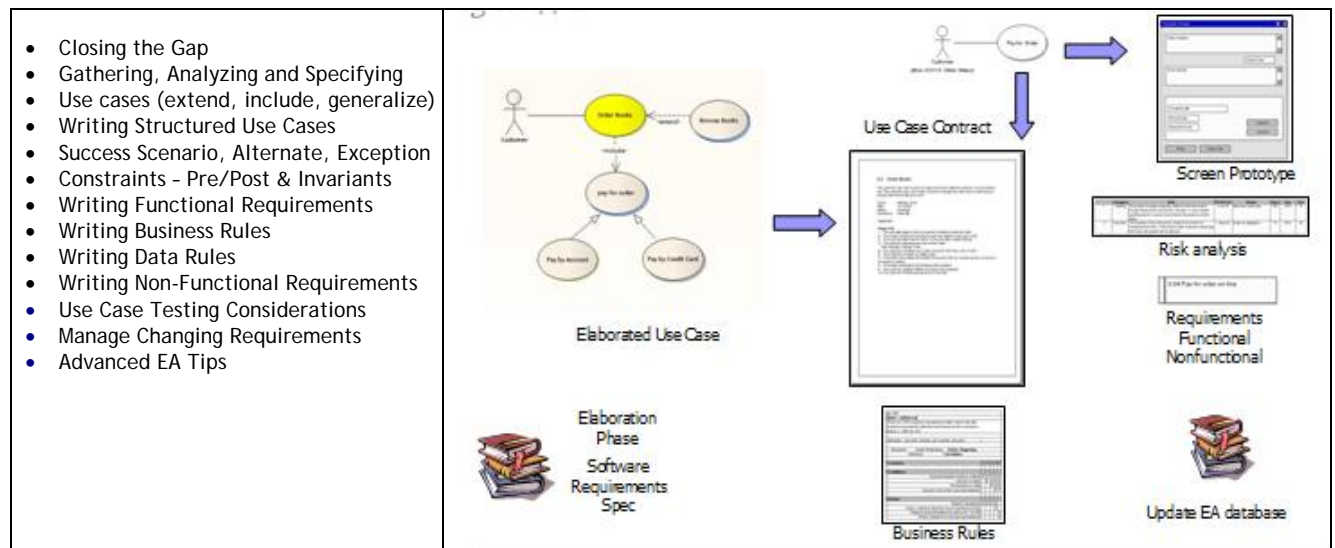
Role-Based Practice Workshops for the Whole Team

You Will Learn How To

- Close the Gap between users, requirements, coding and testing by using effective Use Cases Driven Techniques
- Model Use Cases to significantly reduce rework and find re-usable features
- Write structured Use Cases for specifying rigorous and testable requirements
- Manage changing Requirements using Enterprise Architect
- Capture and document re-useable business rules, data rules, functional and non-functional requirements
- Export Test driven constraints, requirements and scenarios to generate Test plans
- Ensure Best Practices (IIBA, Practice UP, UML, avoid tool failures)

Chapter Benefits - "If a requirement was misunderstood, all modeling decisions based on that requirement are invalid, the code written is also in question, and the testing efforts are now verifying the application under the wrong conditions" - Scott Ambler. Although Use Cases are among the most popular modeling techniques for specifying requirements, they are also among the most abused. This interactive workshop shows how to reap the benefits, while avoiding the pitfalls, of this essential Requirements gathering Techniques. Find out why Enterprise Architect is not your average UML modeling tool.

Chapter Lesson Plans - Requirements Analyst



Learn UML how to effectively develop Elaborated Requirements using the highly effective Use Case driven Approach

Systems Analyst Role

Role-Based Practice Workshops for the Whole Team

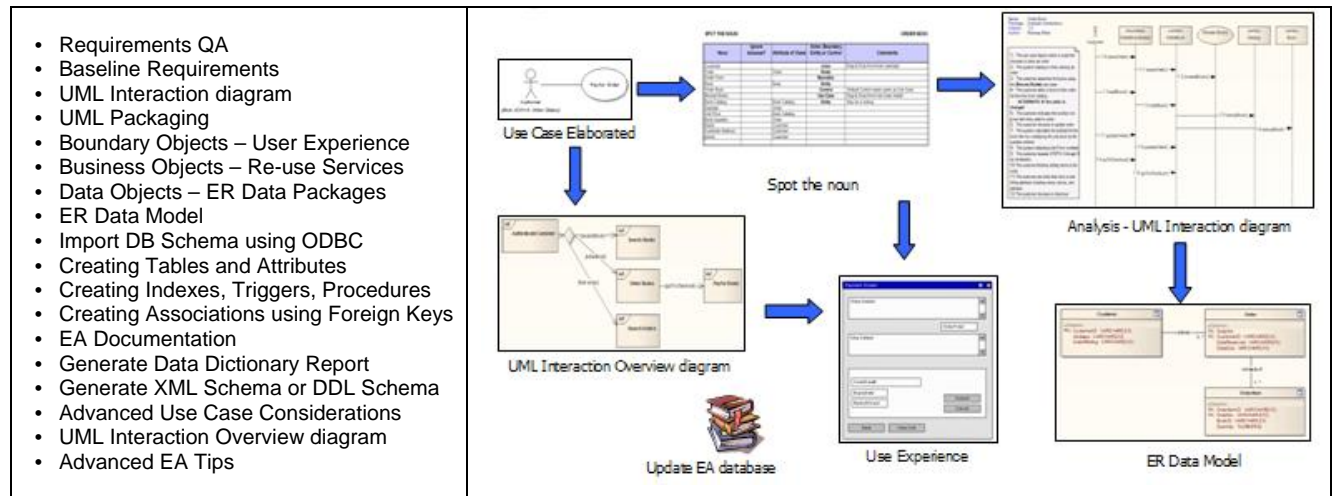
You Will Learn How To

- Exploit the rich object-oriented modeling provided by Enterprise Architect UML Modeling Tool
- Practice a development process that ensures robust object-oriented, database and Web-enabled systems
- Transform Use Case driven requirements to objects models leading to business object re-use
- Analyze and Organize the software architecture (Model, View, Controller)
- Design a robust data model for stored information using Use Case driven data modeling
- Ensure Best Practices (IIBA, Agile Unified Process, UML, avoid tool failures)

Chapter Benefits

In today's business environment, competitive advantage is achieved through the delivery of agile, responsive software deliverables that rapidly adapt to evolving technology and user expectations. Controlling and managing software depends on these critical elements: UML standards, robust architecture, best practice and effective tools. This Systems Analyst Hands-on workshop provides you with the knowledge and skills to contribute effectively to the design of robust, re-usable software systems, especially within Web-enabled environments. Find out why Enterprise Architect is not your average UML modeling tool.

Chapter Lesson Plans - Systems Analyst



Learn UML how to effectively develop go from Use Cases (WHAT) to how for business, data and screen objects

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Enterprise Architect Role

Role-Based Practice Workshops for the Whole Team

You Will Learn How To

- Exploit the rich object-oriented modeling provided by Enterprise Architect Unified Modeling Tool
- Design complex requirements from use cases and transform them into detailed object designs
- Adapt to changing requirements with iterative techniques and component-based design
- Design solutions optimized for object-oriented languages and frameworks (J2EE & .NET)
- Apply proven GOF UML design patterns to refine the analysis and design models
- Understand Design issues in SOA, XML, BPEL and WSDL using UML models
- Create highly Re-usable Architectures Designs using an iterative and agile approach
- Understand code generation issues and trade-offs when using Model Driven Architecture in Enterprise Architect

Chapter Benefits

Service & Object-oriented (SOAD) analysis and design is an industry-proven method for developing reliable, modular, testable programs and systems. This Hands-on Workshop provides practical skills in the latest SOAD requirements gathering, analysis, design, and testing methods. Intensive hands-on exercises offer you a working knowledge that turns concepts into practice. Find out why Enterprise Architect is not your average UML Design modeling tool.

Chapter Lesson Plans - Enterprise Architect

<ul style="list-style-type: none"> • The Role of the Enterprise Architect • Design and Architecture Considerations • XML, WSDL, BPMN & SOA • Improving your Design - Design Patterns • Model Driven Architecture (MDA) • Microsoft .NET Framework • Java J2EE Framework • Design Behavior • UML Sequence Diagram • Designing Operations (Methods) • UML State Diagram • Design Structure • Design Class Diagram • Design Associations • Designing Attributes • Design Implementation packages • Designing the Interface • Advanced EA Tips 	<p>The diagram shows a workflow starting with a 'Design Interaction diagram' (a sequence diagram) which is transformed into a 'State Diagram' (a state machine diagram). This state diagram is then used to create a 'Class Design' (a class diagram with associations and inheritance). Finally, the class design is used to generate 'Design Domain Packages' (a package diagram). A blue arrow points from the interaction diagram to the state diagram, and another blue arrow points from the state diagram to the class design. A third blue arrow points from the class design to the domain packages. An icon of a stack of books labeled 'Update EA database' is shown at the bottom left of the diagram area.</p>
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Learn UML how to Master Design Complex Object Interactions and Design Highly re-usable Architecture Solutions to keep Software Engineers working in parallel to improve code velocity and improve quality code.

Software Engineer Role

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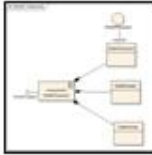
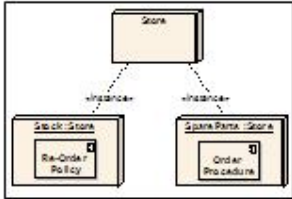

You Will Learn How To

- Practice a development process that ensures robust object-oriented, database and Web-enabled systems
- Transform Use Case driven requirements to objects models leading to business object re-use
- Deliver adaptable software iterations and releases based on Agile methodologies
- Minimize bugs and maximize productivity with Test-Driven Development and unit testing
- Re-factor existing code for easier maintenance and improved design
- Achieve quality design by adopting established coding principles
- Simplify complex coding problems with design patterns
- Ensure Best Practices (IIBA, Practice UP, UML, Agile CMMI, avoid tool failures)

Chapter Benefits

Agile programming is a framework that reduces development time while increasing collaboration. This ensures a final product that has been scrutinized at every stage to maintain reliability. In this intensive Hands-on workshop, you gain a solid foundation in Agile programming principles. You acquire the practical knowledge and skills to plan, code and implement a successful and agile software project. Find out why Enterprise Architect is not your average UML modeling tool.

Chapter Lesson Plans - Software Engineer

<ul style="list-style-type: none"> • The Role of the Agile Software Engineer • The Implementation Model • The Implementation Workflow • Working with Software Components • Code Generation • Editing Source Code in EA • Building a Project in EA • Running a Project in EA • Unit Testing • Visual Studio MDG Integration with EA • Eclipse MDG Integration with EA • Advanced EA Tips 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Create Components and Dependencies</p> </div> <div style="text-align: center;">  <p>Deploy Components onto Nodes</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <pre style="font-family: monospace; font-size: 0.8em;"> public class Order { public Currency Order; public Currency OrderReference; public string OrderNumber; public OrderReference(); public abstract Currency OrderReference(); public void Order(); public Order() OrderReference(); } </pre> <p>Implement Classes with Source Code</p> </div> <div style="text-align: center;">  <p>Design, Build, Debug, Compile and Unit Test</p> <p>Maintain the EA Models</p> </div> </div>
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Learn How to use Sparx EA for maximum Code Forward and Reverse Engineering, Software Patterns and Re-factor poorly written object code



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Project Manager Role

Role-Based Practice Workshops for the Whole Team

You Will Learn How To

- Deliver adaptable software iterations and releases based on the agile UP Practice
- Generate Use Case Driven Project Plans and Cost Estimates from Enterprise Architect
- Minimize bugs and maximize productivity with Use Case, Test-Driven Development project management
- Adopt best practices to successfully manage agile UP projects with Enterprise Architect
- Manage software projects and generate real-time stats for work items, resource tracking and time reporting
- Develop skills and understand the trade-off as the Enterprise Architect Model Guardianship role
- Ensure Best Practices (IIBA, Practice UP, UML, Agile CMMI, avoid tool failures)

Chapter Benefits

Software development projects are often complex, multi-faceted, and evolving through a constant state of change. Guiding these projects successfully requires solid team management and effective project controls. This Hands-on Workshop using Enterprise Architect provides the tools necessary to create Agile Project management plans and iterations, to build and manage a team using the Enterprise Architect model through every phase of the SDLC. Find out why Enterprise Architect is not your average UML modeling tool. . Find out why Enterprise Architect is not your average UML modeling tool.

- Project Management using Enterprise Architect
- Inception Phase – Business Requirements
- Business Value and Risk
- Estimates & Resources
- Elaboration Phase – Software Requirements
- Project Planning (CMMI)
- Schedule, Iterations and Resources
- Risk and Issues
- Use Case Metrics
- Construction - What to build first?
- Flow Statistics
- Backlog of work items
- Transition – What to deploy and when?
- Quality Reports
- Requirements Management (CMMI)
- Project Discussion Forum and Manage Baselines
- Configuration Management (CMMI) - Version Control
- Project Monitoring and Control (CMMI)
- Enterprise Model Guardianship, Security, Standards, Effective Model Deployment
- Advanced EA Tips

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Enterprise Architect Workshops – Led by Practice Leader’s



Mentor and Practice Leader

Ramsay Millar, CBA, ISP
Integrate IT LLC

Areas of Practice

- “Closing the Gaps” to improve the requirements process
- Enterprise Business Architecture
- Business Process Improvement Modeling
- Improving the effectiveness of the Business Analysts
- Model Driven Architecture & Reference Models

Mentor and practice leader Ramsay Millar spends his working days as close as anyone can get to applying emerging trends for professionals searching for better ways to deliver and evolve business-critical software. You are invited to share his insights.

“We’re seeing three trends maturing and starting to converge,” said Millar. “When you layer all three trends together the cumulative effect is a solution to that high historic failure rate of software requirements.”

The result is a profound change in IT culture and practice. This change improves business agility and creates repeatable software quality along with dramatic reductions in the need to re-work code. This kind of improvement appeals not only to the CIO team and Business Analysts but also to the comptroller, who is always looking for ways to increase value-for-money. Millar said the three trends of this “quiet transformation” include:

1. **a wish to close the gap between business requirements and software delivery** by applying proven methods, best practices and tools to the entire software development life cycle. This gap is closing across the life-cycle - from process workflows and rigorous use-case-driven requirements to well formed re-useable architectures.
2. **an increasing acceptance and sophistication of the Unified Modeling Language (UML) standard** - evidence of which is found in the rapid growth of reference models in Model Driven Architecture (MDA), the recent merging of UML and Business Process Modeling Notation (BPMN) by the Object Management Group (OMG), and increasing popularity of next-generation UML tools. IBM’s strong support & Microsoft’s recent membership in OMG.
3. **a shift towards more collaborative, role-based teamwork** and away from the culture of poor requirements by BA’s to reactive code and fix developers and last minute testing of products that are too late and don’t satisfy our customers. Millar said while there is widespread awareness of each of these changes on its own, industry leaders are just beginning to realize what happens when all three trends are combined within a team to produce changes in culture, process and tools.