

Course Listing

Title	Course #	Level	Days	Description	Name
Business Modeling					
Business Service Analysis and Process Design	01-0301	Advanced	3.0	Apply principles of use case driven requirements and object-oriented analysis for understanding the behavior of a business. Business use cases are used to describe the external viewpoint of the business from a customer and partner perspective. Business models are derived from business use cases to describe internal workflows, business workers, and important business concepts.	BSAPD
Domain Modeling with UML	01-0302	Intermediate	1.0	Use UML activity diagrams for describing internal workflow as it relates to system capabilities described with use cases. Apply UML class diagrams for identifying important business concepts and describing their relationships.	DomModUML
Capturing Business Rules	01-0303	Advanced	1.0	Introduces principles of formally identifying and describing business rules. Describes relationship to business modeling and system requirements activities. Introduces industry standards such as the Semantics of Business Vocabulary and Business Rules (SBVR) and the Business Process Modeling Notation (BPMN).	CaptureBR
Business Service Modeling Fundamentals	01-0304	Intermediate	1.0	Introduces fundamentals of describing the externally-facing business services for describing one aspect of business architecture. Discuss characteristics of business services including how to identify business actors and business use cases and how to iteratively refine the business service model.	ServModFund
Business Service Analysis Modeling	01-0305	Intermediate	2.0	Apply formal modeling techniques to derive a business analysis model from a set of business services described with business use cases. Model internal business workflows and identify internal business workers and business entities.	BSAMod
Business Process Design Modeling	01-0306	Advanced	2.0	Introduce business architecture activities and how to derive business components and business capabilities from the business analysis model. Discuss how to represent business data architecture concerns and model internal business component behavior and structure.	BPDMod
Business Motivation Modeling	01-0307	Advanced	1.0	Describe how to formally model the factors that motivate a business – those things often described in business plans such as mission, vision, strategy, tactic, goal, objective, policies and requirements. Introduce the Business Motivation Metamodel (BMM) standard.	BusMotMod
Requirements					
Requirements Gathering Fundamentals	01-0701	Intro	1.0	Introduce basic requirements topics including characteristics of good requirements, discussing sources of requirements, and different approaches for packaging requirements. Includes introduction to traditional requirements elicitation techniques such as brainstorming, workshops, interviews, Pareto charts, and role playing.	ReqGathFund
Requirements Management Fundamentals	01-0702	Advanced	1.0	Introduce principles of effective requirements management including root-cause analysis, developing a product vision, feature identification, and how to manage scope and change with a requirements traceability strategy.	ReqMgmtFund
Use Case Modeling Fundamentals	01-0704	Intermediate	1.0	Introduces fundamentals of describing the detailed software requirements of a system with use cases. Discuss characteristics of good use cases including how to identify actors and use cases and how to iteratively refine the use case model throughout the software development lifecycle.	UseCaseFund
Requirements Management with Use Cases	01-0703	Intermediate	3.0	Special packaging of Requirements Gathering Fundamentals, Use Case Modeling Fundamentals, and Requirements Management Fundamentals.	RMUC
OpenUP Requirements	01-0705	Intermediate	2.0	Introduce OpenUP requirements practices including root-cause analysis, developing a product vision, and identifying features. Discuss how to manage requirements in the context of a traceability strategy. Introduce fundamentals of describing the detailed software requirements of a system with use cases.	OpenUPReq
Analysis & Design					
Object-Oriented Analysis with UML	01-0101	Intermediate	2.0	Apply object-oriented principles to deriving an analysis model (e.g. the preliminary design model) from a use case model including UML collaboration, sequence, and class diagrams.	OOA
Object-Oriented Design with UML	01-0102	Advanced	2.0	Introduce software architecture partitioning and how to derive a detailed design model from an analysis model. Discuss how to identify subsystems and interfaces, applying design patterns, details of class design, and how to describe the design of the internal behavior and structure of subsystems.	OOD
Object-Oriented Analysis and Design with UML	01-0100	Intermediate	3.0	Special accelerated packaging of Object-Oriented Analysis and Object-Oriented Design. Does not include how to apply design patterns.	OOAD
User Interaction Design with UML	01-0103	Intermediate	2.0	Discuss how to derive the user interaction design from an analysis model. Introduce how to describe the navigation map with UML class diagrams and the details of UI design for individual use cases using UML sequence and class diagrams.	UIDesign
OpenUP Analysis and Design	01-0104	Intermediate	3.0	Special accelerated packaging of Object-Oriented Analysis and Object-Oriented Design. Does not include how to apply design patterns.	OpenUPAD
Architecture					
Assessing Architecture Viability with ATAM	01-0201	Advanced	1.0	Introduce the Software Engineering Institute's (SEI) technique for comparatively assessing software architecture using quality attributes.	ATAM
Fundamentals of Reusable Architecture	01-0202	Advanced	1.0	Discuss the concepts for identifying, describing, harvesting, producing, and consuming reusable software assets.	ReuseFund
Model-Driven Architecture Fundamentals	01-0203	Intermediate	1.0	Introduce the fundamentals of Model-Driven Architecture (MDA) including the principles of model transformation between the Computation Independent Model (CIM), Platform Independent Model (PIM), and Platform Specific Model (PSM).	MDAFund

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Architecture (continued)				
Model Driven Service-Oriented Architecture	Advanced	3.0	Understand how to derive a service-oriented architecture (SOA) from business use case model or a traditional business component map. Discuss how to represent required service levels and data associated with services. Introduce industry standards for representing service composition and integration. Discuss how to represent the implementation of service providers using service components.	ModelSOA
Introduction to TOGAF	Intro	1.0	Introduce The Open Group Architecture Framework (TOGAF) to experienced business/IT practitioners. Introduce key aspects of TOGAF including the Architecture Development Method (ADM), the Enterprise Continuum and the TOGAF Resource Base.	IntroTOGAF
TOGAF Enterprise Architecture Development	Intermediate	1.0	Discuss the concepts behind the Enterprise Continuum and building blocks in TOGAF. Discuss how to describe the baseline and target architectures for the four enterprise architecture domains – business, data, application, and technology.	EADev
TOGAF Architecture Practice Implementation	Intermediate	1.0	Discuss how to implement an enterprise architecture practice using TOGAF and other industry standards. Introduce concepts of architecture maturity and architecture skills framework. Discuss adapting the TOGAF ADM and establishing an EA traceability strategy. Review principles of architecture modeling and key EA tool requirements.	ArchPracImpl
TOGAF Enterprise Architecture Transformation	Intermediate	1.0	Discuss how to establish an architecture vision for organizational transformation and how to identify solution opportunities for realizing the architecture vision. Discuss architecture migration planning and governing solution delivery implementation. Introduce architecture change management activities and formally initiating the EA lifecycle again.	EATransform
APG TOGAF 8 Certification Training Program	Intermediate	4.0	Special combination of four TOGAF courses offered together for the convenience of those seeking formal TOGAF 8 certification from The Open Group.	TOGAF8Cert
Process				
Process Modeling with SPEM and UML	Advanced	2.0	Apply UML modeling for capturing the elements of a software development process such as disciplines, workflows, workers, and work products using the Software Process Engineering Metamodel (SPEM).	SPEMUML
OpenUP Team Fundamentals	Intro	1.0	Introduce key concepts of the Open Unified Process (OpenUP) as a minimally-sufficient software development process that incorporates agile planning techniques with risk-driven, iterative practices.	OpenUPTeam
Rational Unified Process Fundamentals	Intro	3.0	Explain key concepts of the Rational Unified Process (RUP) and its fundamental characteristics as an iterative, use case driven, and architecture-centric software development process.	RUPFund
Process Improvement Fundamentals	Intermediate	2.0	Discuss how to iteratively improve the capabilities of a software development organization using proven process improvement techniques.	ProclimpFund
Project Management				
Iterative Development Fundamentals	Intermediate	2.0	Apply the fundamentals of iterative project management, including risk management, release planning, phase planning, iteration planning, metrics and measurements, iteration assessment, and project status reporting.	IterDevFund
Risk Management Fundamentals	Intro	1.0	Introduce fundamentals of modern risk management activities including risk identification, risk management strategies, risk tracking and reporting.	RiskMgmtFund
OpenUP Project Management	Intermediate	2.0	Introduce fundamentals of OpenUP agile planning and tracking, team building, and collaboration techniques. Discuss how to apply with an iterative, risk-driven approach to continually deliver working software to the customer.	OpenUPPM
Testing				
Test Case Design with UML	Intermediate	2.0	Discuss how to derive a test model of test suites, test cases, and test procedures from use cases, the analysis model, and detailed design model by applying object-oriented concepts and UML.	TestCaseDesign
OpenUP Testing	Intermediate	1.0	Discuss the OpenUP testing approach and how to derive test cases from use cases, implement and execute test cases, and evaluate the results	OpenUPTest
General				
Configuration Management Fundamentals	Intro	1.0	Discuss fundamental principles of configuration management including roles and responsibilities, branching and merging strategies, product labeling and baselining, product directory structure, change request management, and configuration status accounting.	CMFund
Executive Overview of Agile Development	Intro	0.5	Overview for executive managers on the iterative business management philosophy and how to best support their IT organizations in successfully transitioning to the agile approach (Scrum/XP/OpenUP)	ExecAgileDev
Executive Overview of Iterative Development	Intro	0.5	Overview for executive managers on the iterative business management philosophy and how to best support their IT organizations in successfully transitioning to the iterative approach (RUP).	ExecIterDev
TOGAF Executive Management Overview	Intro	0.5	Overview for executives on the business value of enterprise architecture using The Open Group Architecture Framework (TOGAF) including its Architecture Development Method (ADM). Introduce architecture governance and other critical success factors.	TOGAFExecMgmt
Introduction to Enterprise Architecture	Intro	0.3	Overview for executives on the business value of enterprise architecture and introduce industry standard best practices for establishing and sustaining an EA capability.	IntroEA

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General (continued)				
Introduction to Object-Orientation	Intro	2.0	Introduces the fundamentals of object-orientation including abstraction, encapsulation, modularity, and hierarchy and object-oriented concepts of objects, classes, attributes, operations, and relationships. Includes discussion of CRC cards.	IntroOO
UML Fundamentals	Intro	1.0	Introduce basics of the Unified Modeling Language (UML) including objects, classes, attributes, operations, and fundamental diagrams like collaboration diagrams, sequence diagrams, and class diagrams.	UMLFund
UML Certification Fundamentals	Intermediate	2.0	Comprehensive overview of the topics covered in the OMG Certified UML Professional Fundamental exam.	UMLCertFund
Tools				
Method Composer Fundamentals	Advanced	1.0	Introduce how to use the EPF Composer tool (or its commercial version, Rational Method Composer) to define method content (roles, tasks, work products), configure process patterns, elaborate method content with guidance (guidelines, checklists, templates), and publish a customized process website. Discuss process development approach and how to extend existing methods and tailoring it.	CompFund
Customizing IBM Rational Suite	Advanced	1.0	Introduce different customization strategies and approaches for the IBM Rational tool suite including Rational Method Composer, Rational Portfolio Manager, Rational Administrator, Rational ClearQuest, Rational RequisitePro, Rational Software Modeler, Rational SoDA, and Rational Test Manager.	CustRat
Introduction to IBM Rational Analyst Tools	Intermediate	1.0	Introduce how to apply key elements of the IBM Rational tool suite (RSM, RequisitePro, and SoDA) for requirements activities including use case modeling, traceability, managing scope, and impact analysis.	IntroAnalystTools
Introduction to IBM Rational ClearQuest	Intro	0.5	Introduce how to use Rational ClearQuest for capturing, tracking, and reporting enhancement requests, change requests and product defects.	IntroCQ
Enterprise Architect Modeling Fundamentals	Intermediate	1.0	Introduce how to use Sparx Enterprise Architect for use case modeling, analysis modeling, basic architectural modeling, and detailed design. Discuss how to build a UML 2.0 model using use case diagrams, communication diagrams, sequence diagrams, class diagrams, and state machine diagrams.	EAFund
Telelogic System Architect Fundamentals	Intermediate	1.0	Introduce how to use System Architect for enterprise architecture modeling (business architecture, application architecture, data architecture, and technology architecture) using The Open Group Architecture Framework (TOGAF)	SysArchFund
Visual Paradigm Modeling Fundamentals	Intermediate	1.0	Introduce how to use Visual Paradigm for UML for use case modeling, analysis modeling, basic architectural modeling, and detailed design. Discuss how to build a UML 2.0 model using use case diagrams, communication diagrams, sequence diagrams, class diagrams, and state machine diagrams.	VPFund
IBM Rational Rose Design Fundamentals	Intermediate	1.0	Introduce how to use Rational Rose for use case modeling, analysis modeling, basic architectural modeling, and detailed design. Discuss how to build a UML model using use case diagrams, collaboration diagrams, sequence diagrams, and statechart diagrams.	RoseDesignFund
IBM Rational Rose XDE Design Fundamentals	Intermediate	1.0	Introduce how to use Rational Rose XDE or use case modeling, analysis modeling, basic architectural modeling, and detailed design. Discuss how to build a UML model using use case diagrams, collaboration diagrams, sequence diagrams, class diagrams, and statechart diagrams.	XDEDesignFund
IBM Rational Software Modeler Fundamentals	Intermediate	1.0	Introduce how to use Rational Software Modeler for use case modeling, analysis modeling, basic architectural modeling, and detailed design. Discuss how to build a UML 2.0 model using use case diagrams, communication diagrams, sequence diagrams, class diagrams, and state machine diagrams.	RSMFund
IBM Rational RequisitePro Fundamentals	Intermediate	1.0	Introduce how to use Rational RequisitePro for managing requirements, documents, requirements attributes, and traceability.	ReqProFund
IBM Rational Portfolio Manager Fundamentals	Intermediate	2.0	Introduce how an experienced project manager would use IBM Rational Portfolio Manager (RPM) to manage software development projects.	RPMFund
IBM Rational Test Manager Fundamentals	Intermediate	1.0	Introduce how to use Rational Test Manager for planning, managing, executing, and evaluating the software testing lifecycle.	TestMgrFund
IBM Rational SoDA for Word Fundamentals	Advanced	1.0	Discuss how to setup and configure Rational SoDA for generating useful reports from Rational Software Modeler and Rational RequisitePro.	SoDAFund