Core Competencies: Overview *

At Dell Boomi, we want to equip our customers for mastery of the AtomSphere platform and their runtime environments. Our certified Professional Architects are able to:

- Understand various document flow and error handling techniques
- Work the alerts framework and access the AtomSphere API
- Understand runtime configurations
- Install local atoms and understand molecule installation
- Configure and monitor the runtime
- Manage the full development life cycle
- Employ advanced testing strategies and principles
- Understand AtomSphere security
- Assess AtomSphere's place in Enterprise Architecture
- Use Web Service integration patterns
- Leverage the AtomSphere API for advanced workflow *(Details on page 2)*

To enable architects to acquire these core competencies, Boomi offers a comprehensive Professional Architect Certification Path. This includes our Professional Architect Course Sequence and Professional Architect Certification Exam.

Course Sequence

- **Boomi Essentials.** Foundational training in our Shapes, UI and information critical to understanding the power of the Dell Boomi Platform. Available only online as On-Demand training. Visit the Boomi website [https://boomi.com/services/training/](https://boomi.com/services/training/) and sign up via the Free Training Banner.
- **Architect 1.** Training in document flow, error handling, creating alerts, using the Event Framework, selecting a runtime architecture, installing a local atom, configuring a runtime.
- **Architect 2.** Training in life cycle management, advanced runtime mechanics, testing strategies, and AtomSphere security.
- **Architect 3.** Training in deployment options for enterprise architecture, API interaction, API automating process promotion, API user administration, Atom monitoring and management, capacity management, event-based integration, best practices/techniques, and common integration scenarios for web services.

Certification Exam

To assess your understanding of the core competencies, we offer a Professional Architect Certification Exam comprised of the following sections:

- Practice Section
- General Knowledge Section (70 questions)
- Practical Section: Integration Troubleshooting (30 questions)
Core Competencies: Details

Understand various document flow and error handling techniques
- Original Document ID
- Batch Documents
- Flow Control
- Try/Catch

Work the Event Framework and access the AtomSphere API
- Custom Alerts
- Accessing the Event Framework
- Create custom logs

Understand runtime configurations
- Review available runtimes
- Cloud vs local
- Selecting an appropriate runtime

Install Local Atom
- Installation requirements
- Install a local atom
- Review process for Molecule install

Configure and Monitor the Runtime
- Configuration files
- Change memory allocation
- Custom scripting and JARs
- Directory Structure
- Purging configurations
- Starting, stopping, and restarting local runtime
- Atom monitoring and management
- Release cycle issues
- Boomi Dashboard
- Capacity management

Manage the Development Life Cycle
- Environment setup
- Process Extensions: define certain configuration settings to be specified at deploy time instead of build time
- Copy process deployments to other environments, redeploy processes, maintain process versions
- Process comparison
- Copy process from deployments

Employ advanced testing strategies and principles
- Test Mode
- Source Data
- Real-time vs Batch

Understand AtomSphere Security
- User roles
- AtomSphere permissions
- Folder permissions
- User administration

Debug and troubleshoot integration processes
- Read data at each shape in Test mode
- Exception shape: terminate the data flow and define custom error messages
- Try/Catch shape: capture process-level or document-level errors for documents that fail during a process execution.
- Enable strategies for error handling

Assess AtomSphere's place in Enterprise Architecture
- AtomSphere Capabilities
- AtomSphere position within Enterprise Architecture
- Deployment Options

Use Web Service Integration Patterns
- Asynchronous Web Service pattern
- Synchronous Web Service pattern
- Accumulate then process, queuing requests

Leveraging the AtomSphere API for advanced workflow
- API overview
- API best practices
- Automating Process promotion
- User administration

Contact Us
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Website: www.boomi.com/services/training
Phone: 1-800-732-3602
Foundational training in our Shapes, UI and information critical to understanding the power of the Dell Boomi Platform.

DETAILED AGENDA

- Introductory Training: Integration Walkthrough
  - Introduction to AtomSphere
  - Disk and FTP Connectors
  - Introduction to shapes: Map, Branch, Set Properties
  - Deploying, Executing Processes and detaching from runtime
  - Process Reporting

- Help Options
  - Boomi Community
  - User Guide
  - Logging a Support Case
**Boomi Architect 1**

**Architect 1-** Training in Boomi basics, atom installation and management, error handling, runtime installation and configuration

**Pre-requisites-** Boomi Essentials

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**DETAILED AGENDA**

- **Architecture Overview.** Understand various document flow and error handling techniques. Learn the basics of document flow, original document ID, Flow Control, versioning, and error handling.

- **Alerts and Event Framework.** Work the Event Framework and access the AtomSphere API. Learn the importance of alerts and explore using the Event Framework to create and retrieve alerts.

- **Runtime Architecture.** Understand runtime configurations. Learn about the various runtime setups and consider benefits and use-case for each runtime.

- **Runtime Installation.** Learn how to install a local atom on your machine. Review requirements for installation and best practices for installation.

- **Runtime Configuration.** Learn to configure a local runtime and become familiar with runtime options and settings. Configure memory allocation and purging configurations. Learn to install, start, stop, and restart atoms. Learn simple atom monitoring techniques.
Architect 2 - Training in life cycle management, testing strategies and a review of available runtimes including unique runtime characteristics.

Pre-requisites - Boomi Essentials, Architect 1

DETAILED AGENDA

- **Life Cycle Management.** Learn to manage the entire lifecycle of process. Learn how to use environments, extensions, process promotions, and process comparisons.

- **Understanding Runtime Mechanics.** Review all available runtimes and consider cloud vs local setups. Learn about different runtime configurations and the benefits of threaded and forked executions.

- **Testing Strategies.** Learn testing strategies and principles including review of Test Mode, usage of source data, and real-time vs batch testing.

- **AtomSphere Security.** Learn about platform and runtime security including user roles, AtomSphere permissions, folder permissions, and user administration.
Architect 3 - Training in AtomSphere, operational management, web service integrations, and API management.

Pre-requisites - Boomi Essentials, Architect 1, Architect 2

DETAILED AGENDA

- **AtomSphere for Architects.** Learn about AtomSphere capabilities and deployment options.

- **Operational Management.** Learn about monitoring atoms and processes, release cycles, and the Boomi Dashboard.

- **Leveraging the API.** Learn about API management, use cases, and administration, API best practices and automatic process promotion.

- **Integration Patterns.** Learn about multiple web service integration patterns including synchronous, asynchronous, queues, and parallel processing.