# TopQuadrant Semantic Web Technology Curriculum

Now in its 8th year, TopQuadrant is offering a continuing program of public and on-site trainings in Semantic Web Technologies. Our curriculum is regularly updated to reflect the evolution and maturing of this technology, and its progressive adoption in the marketplace. Our range of offerings addresses a wide variety of training audiences, including business managers, subject matter experts, modelers, catalogers, technology managers and developers.

## Who
- CIOs, Senior IT Execs, Business Sponsors of IT Initiatives
- Web App Developers, Web Designers, Business Power Users
- Tech. Managers, Architects, DB Designers, XML Schema Developers, System Analysts
- Librarians, Content Managers, Taxonomists and Metadata Managers
- Ontology Developers
- Software Developers, Software Engineers, Programmers

## Initial Class
- Introduction to Semantic Web Technologies: What They are and How to Use Them
- Building and Deploying Semantic Web Applications with TopBraid Suite
- TopBraid Suite Advanced Product Training
- Introduction to Semantic Web Technologies: What They are and How to Use Them
- Solution Envisioning Workshop (optional)
- TopBraid Suite Advanced Product Training
- Introduction to Semantic Web Technologies: What They are and How to Use Them
- Solution Envisioning Workshop (optional)
- TopBraid Suite Advanced Product Training
- Introduction to Semantic Web Technologies: What They are and How to Use Them

## Next Steps
- Building and Deploying Semantic Web Applications with TopBraid Suite
- TopBraid Suite Advanced Product Training
- Building and Deploying Semantic Web Applications with TopBraid Suite
- Advanced Ontology Development Workshop
- Building and Deploying Semantic Web Applications with TopBraid Suite
- Advanced Ontology Development Workshop (optional)

## Certification Track
- N/A
- Certified to configure the functionality and look & feel of web browser based semantic web apps.
- Certified to evaluate and maintain ontology architectures and ontology-based applications.
- Certified to customize and maintain end-user applications and request informed extensions to models.
- Certified to build modular ontologies and ontology architectures that can support real world applications.
- Certified to implement and deploy technical infrastructure that can support semantic solutions.

## Subsequent Offerings**
**Jump start packages for building complete applications based on TopBraid Suite, ranging from 30 day proof-of-concept projects to 100 day construction of fully deployable solutions.

*can be skipped by those with adequate knowledge/experience

For more information, visit: www.topquadrant.com/training/training_overview.html

Contact us at trainings@topquadrant.com or (703) 299-9330 for any other questions or requests about our products.

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Standard Trainings

These programs are conducted as a public training course on a regular schedule on both the east and west coasts. They are also offered as a customized, on-site training, an option which a growing number of companies are choosing to help build their semantic technology competency.

Getting Ready for the Semantic Web with TopBraid Suite

Four-day program. For details, schedule and registration visit: http://www.topquadrant.com/training/intro.html

Skills and Knowledge Gained:

- Understand Semantic Capabilities: Application Areas, Business Value and Success Stories
- Know the status of W3C’s semantic layers - languages, standards and technology road map
- Explore differences between semantic technology vs. relational DB and object technologies
- Explore the roles of kinds of semantic web products and tools in a semantic deployment architecture.
- Gain experience using TopBraid Composer to create, manage and utilize semantic models
- Use SPARQL to query, filter and transform semantic data.
- Gain hands-on experience building a new class of applications (“model-driven”) to simplify access to distributed information.
- Import information from many common data sources (RSS, spreadsheets, databases, etc.)
- Examine ontology-driven approaches for merging and integrating data

Building and Deploying Semantic Web Applications with TopBraid Suite

A one-day class focusing on application development with the TopBraid Suite

Skills and Knowledge Gained:

- Assembling model-driven applications in TopBraid Ensemble, including:
  - User Interface Widgets (e.g., trees, lists, graphs, maps, calendars)
  - Component customization
  - Designing Widget interactions
  - Connecting Ensemble applications to SPARQLMotion web services in TopBraid Live
- SPIN Rules and Constraints in TopBraid Ensemble
- Visual query creation and editing

Solution Envisioning Workshop

2-3 day intensive workshop For details, visit: http://www.topquadrant.com/services/solution_envisioning.html

Results and Knowledge Gained:

- Situated appreciation of what semantic technology can do for the enterprise
- Focused guidance and prerequisites for creating shared understanding and effectively engaging a full set of stakeholders needed for successful semantic technology initiatives and securing Return-On-Investment
- Clear vision and solution initiative statements, solution concept and architecture, business case and plan for action

Using the TopBraid Live SDK and Other Extension Points

Onsite mentoring and knowledge transfer

The material covers all of the means for programmatically extending TopBraid Suite, including using TopBraid Live SDK to create custom TopBraid Ensemble components and build non-TBE Flex applications, developing non Flex-based applications (using JavaScript, HTML, etc.), creating new SPARQLMotion modules and SPARQL functions, and more on the architecture of TopBraid Suite.

Custom Programs

These programs are tailored to customers needs, and delivered on-site at customer locations.

Advanced Ontology Development Workshop

2-3 day workshop (hands-on)