

## F122G: IBM Content Navigator 2.0.2 - Plug-ins and External Data Services

Course Code: F122G

Duration: 2 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### OVERVIEW

This course provides training on customizing and extending the IBM Content Navigator features. You learn how to develop plug-ins and implement External Data Services. You also learn how to create a custom workflow step processor. You use the student guide and an IBM Content Navigator system to complete the learning.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course.

### SKILLS COVERED

Upon completion of this course, participants will be able to:

- Implement External Data Services (EDS)
- Prefill an initial value for a data field
- Implement property field validation
- Create dependent Choice Lists with sample EDS
- Change the field status dynamically for a property

Develop custom plug-ins to do the following tasks:

- Implement custom Response Filters

- Add a custom Property Editor
- Add a custom Feature
- Add a custom Action
- Create a Custom Workflow Step Processor
- Develop and configure a custom step processor
- Add external data services to step processor
- Add an action to the custom step processor
- Use Content Navigator widgets in other applications
- Integrate Content Navigator with URL API

### WHO SHOULD ATTEND?

- Developers who are responsible for Customizing and extending the IBM Content Navigator features by developing plug-ins
- Anyone who needs to know the capabilities of IBM Content Navigator.

### PREREQUISITES

Intermediate level expertise in the following technologies:

- Java
- JavaScript
- JSON
- HyperText Markup Language (HTML 5)
- Cascading Style Sheets (CSS3)
- Dojo (version 1.8.4)
- Experience with Eclipse IDE for developing applications.
- Familiarity with deploying applications in WebSphere Application Server.
- Familiarity with Content and Business Process Management (workflow) concepts
- Experience with IBM Content Navigator or the following recommended Courses:

- F205 - Introduction to IBM Content Navigator 2.0

- F121 - IBM Content Navigator 2.0.2 Administration

## MODULES

### Module 1: Implement External Data Services (EDS)

- Request and response filters implemented in the sample EDS
- External Data Services and EDS REST protocol
- Create choice lists with External Data Service
- Appendix: Steps to import the sample EDS into Eclipse

### Module 2: Develop Plug-ins

- IBM Content Navigator development architecture
- Develop applications with IBM Content Navigator
- Setting up the development environment for plug-ins
- IBM Content Navigator Plug-ins
- IBM Content Navigator plug-in extensions
- Request and response filters
- ContentList and Document information areas
- Custom Property Editors
- Add feature to IBM Content Navigator interface
- Creating Client-side plug-in extensions
- Develop a plug-in to add a menu action

### Module 3: Create a Custom Workflow Step Processor

- Workflows in IBM Content Navigator
- IBM Content Navigator step processors

- Custom step processors
- Add an Action to the Custom Step Processor (to use embedded viewer)
- Use Content Navigator widgets in other applications
- Externalize IBM Content Navigator widgets
- Unbound integration
- Externalize with URL API and Deep linking
- Externalize with a custom Feature
- Externalize with a custom Layout
- Bound integration

### Module 4: Appendix

- Start and Stop System Components
- Debugging and troubleshooting
- Develop ECM Widgets solutions in IBM Content Navigator
- Additional Information and links

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