



Lotus Notes

N7D510 Fundamentals of IBM Lotus Domino Application Development

Length: 4 Days

Course Description

The course provides the information that developers need to know to successfully create and modify database applications in IBM® Lotus® Domino Designer® 7. It provides an overview of the Lotus Domino 7 and Domino Designer 7 environments, introduces the elements and skills that are used in creating single-database Lotus Domino applications, describes how the formula language can be used to enhance the functionality of a Lotus Domino application, and explains how Lotus Domino applications can be secured.

This course extends participants' Domino application development skills by teaching them how to use the Domino tools to design and develop dynamic Web applications. Participants learn how to efficiently use Domino fields and page lay out design elements in the Web pages. They learn how to use JavaScript in their Domino application. Participants do not need to know how to program in this language to acquire an understanding of how and where to apply the programming capabilities to the best advantage. Finally, this course covers security topics specific to the Domino web environment.

Target Student: The target audience for this course is application developers who are new to developing Lotus Domino applications and who need to acquire the fundamental skills to develop and modify single database applications in IBM Domino Designer 7.

Prerequisites: The prerequisites for this course include experience using the IBM Lotus Notes client, Web browser or both to access applications. Experience in developing one or more applications using other application development tools is recommended.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- Explore the foundations of Lotus Domino applications.
- Explore the design environment found in Lotus Domino Designer 7.
- Create databases.
- Create pages.
- Create forms.
- Create views.
- Examine the fundamentals of writing formulas in Lotus Domino.
- Add functionality to forms by using formulas.
- Add functionality to views by using formulas.
- Enhance the appearance and functionality of forms.
- Enhance the appearance and functionality of views.
- Use actions to automate tasks.
- Use agents to automate tasks.
- Plan and apply security for Lotus Domino applications.
- Deploy an application.

Course Content

Lesson 1: Exploring Applications in Lotus Domino 7

- Topic 1A: Identify Application Types and Data Sources
- Topic 1B: Examine the Lotus Domino Architecture
- Topic 1C: Examine Lotus Domino Application Components
- Topic 1D: Investigate Replication and Application Design Considerations
- Topic 1E: Extend Lotus Domino Collaboration Capabilities

Lesson 2: Exploring the Lotus Domino 7 Design Environment

- Topic 2A: Explore the Lotus Domino Designer User Interface
- Topic 2B: Access Design Elements

Lesson 3: Creating Databases

- Topic 3A: Create a New, Blank Database in Lotus Domino Designer
- Topic 3B: Create a Copy of an Existing Database
- Topic 3C: Create a Database from a Template
- Topic 3D: Organize the Lotus Domino Designer Environment

Lesson 4: Creating Pages

- Topic 4A: Explore Page Content, Layout, and Navigation Basics
- Topic 4B: Create Pages
- Topic 4C: Add Text to Pages
- Topic 4D: Use Tables to Lay Out Pages
- Topic 4E: Add Images to Pages

Lesson 5: Creating Forms

- Topic 5A: Create Forms
- Topic 5B: Add Fields to Forms
- Topic 5C: Hide Form Elements

Lesson 6: Creating Views

- Topic 6A: Create Views
- Topic 6B: Add View Columns
- Topic 6C: Organize Documents
- Topic 6D: Format Views

Lesson 7: Introducing Formulas

- Topic 7A: Identify Programming Languages Supported by Lotus Domino
- Topic 7B: Identify Formula Components
- Topic 7C: Identify Event Triggers
- Topic 7D: Compute and Compare Values
- Topic 7E: Work with @Functions
- Topic 7F: Explore Formatting and Comments

Lesson 8: Using Formulas in Forms

- Topic 8A: Create Window Titles
- Topic 8B: Work with Computed Values
- Topic 8C: Work with Field Values
- Topic 8D: Work with Lists
- Topic 8E: Prompt Users
- Topic 8F: Create Reusable Code
- Topic 8G: Implement Error Checking

Lesson 9: Using Formulas in Views

- Topic 9A: Create Selection Formulas
- Topic 9B: Concatenate Values in a View Column
- Topic 9C: Display Icons In A View

Lesson 10: Enhancing Forms

- Topic 10A: Work with Layers
- Topic 10B: Work with Subforms

- Topic 10C: Create Shared Fields
- Topic 10D: Enable Inheritance in Forms and Documents
- Topic 10E: Create Related Forms
- Topic 10F: Enable AutoSave
- Topic 10G: Implement Lotus Sametime Instant Messaging in Forms

Lesson 11: Enhancing Views

- Topic 11A: Define Hierarchical Views
- Topic 11B: Display Response Data in Views
- Topic 11C: Implement Shared Columns
- Topic 11D: Enable Lotus Sametime Instant Messaging in Views
- Topic 11E: Create Views for the Web

Lesson 12: Working with Actions

- Topic 12A: Create Actions
- Topic 12B: Create Shared Actions
- Topic 12C: Control the Display of Actions
- Topic 12D: Create Action Hotspots

Lesson 13: Working with Agents

- Topic 13A: Investigate Agents
- Topic 13B: Create Agents

Lesson 14: Securing Applications

- Topic 14A: Explore Database Access
- Topic 14B: Implement Roles
- Topic 14C: Use Readers and Authors Fields
- Topic 14D: Control Access for Anonymous Users

Lesson 15: Deploying Applications

- Topic 15A: Deploy Applications