



MICROSOFT TRAINING

Microsoft Dynamics Ax Development I Course

Develop robust solutions for Microsoft Dynamics AX with X++ programming. Customize and extend AX functionalities.

DURATION

16 Hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This Microsoft Dynamics AX Development I course is meticulously designed for aspiring and current IT professionals eager to master the foundational aspects of customizing and extending Microsoft Dynamics AX. Participants will delve deep into the core development environment, gaining hands-on experience with X++ programming, the Application Object Tree (AOT), and the MorphX development suite. The curriculum emphasizes understanding the Dynamics AX data model, developing robust business logic, creating interactive forms, and integrating custom solutions seamlessly within the ERP ecosystem. Upon completion, you will be proficient in tailoring Dynamics AX to meet specific business requirements, enhancing its functionality, and contributing to more efficient enterprise operations.

Duration	16 Hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Microsoft Dynamics AX Development

- Overview of Microsoft Dynamics AX architecture
- Introduction to the Application Object Tree (AOT)
- Understanding the MorphX Development Environment
- Introduction to X++ programming language
- Best practices for AX development

02 Module 2: Working with Data Model and Tables

- Creating and modifying tables in the AOT
- Defining data types and extended data types (EDTs)
- Establishing table relationships and foreign keys
- Implementing indexes for performance optimization
- Data validation using table methods

03 Module 3: Developing Forms and User Interface

- Designing and building forms using the AOT
- Working with form controls (buttons, fields, grids)
- Implementing form methods and event handling
- Creating menu items and navigation paths
- Applying UI best practices for user experience

04 Module 4: X++ Classes and Business Logic

- Fundamentals of object-oriented programming in X++
- Creating and using X++ classes and methods
- Implementing inheritance and polymorphism
- Developing batch jobs and server-side processes
- Error handling and exception management

05 Module 5: Security and Basic Reporting

- Understanding Dynamics AX role-based security model
- Creating and assigning security roles and duties
- Implementing record-level security

- Introduction to developing simple reports
- Integrating custom logic with existing reports

06 Module 6: Debugging, Version Control, and Deployment

- Utilizing the X++ debugger for troubleshooting
- Introduction to version control in Dynamics AX
- Deploying AOT changes and custom solutions
- Performance considerations for AX development
- Maintaining and upgrading custom code

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Dynamics AX Developer**
- > **ERP Customization Specialist**
- > **Solutions Architect (Dynamics AX focus)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational programming knowledge is recommended before enrolling in the Microsoft Dynamics AX Development I course?

While this course covers X++ extensively, participants will benefit greatly from prior experience with object-oriented programming concepts in languages such as C#, Java, or even Visual Basic. A basic understanding of relational databases and SQL will also be advantageous for grasping the data model concepts.

Q: How will completing this course enhance my ability to troubleshoot and customize existing Dynamics AX implementations in a professional setting?

This course provides you with the fundamental skills to navigate the Application Object Tree (AOT), understand existing X++ code, and effectively use debugging tools. You will learn to identify areas for customization, develop targeted enhancements, and efficiently diagnose issues within a live Dynamics AX environment, making you a valuable asset for maintenance and improvement projects.

Q: Does this course cover advanced topics like integrating Dynamics AX with external systems or developing SSRS reports?

The Microsoft Dynamics AX Development I course focuses on core development within the Dynamics AX environment, covering X++ programming, AOT customization, forms, and business logic. While it lays a strong foundation, advanced topics such as complex external system integrations (e.g., using AIF), advanced SSRS report development, or Enterprise Portal customizations are typically covered in subsequent, more specialized Dynamics AX development courses.

ABOUT COMPUTER PRIDE

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With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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