

**CETPA INFOTECH PVT. LTD.**  
**CURRICULUM OF MICROSOFT DYNAMICS**

**Module 1:** Enterprise Portal in Microsoft Dynamics AX 2012 This module explains what Enterprise Portal is, its components, its architecture and its search components.

**Lessons**

- What is Enterprise Portal
- Enterprise Portal Architecture

After completing this module, students will be able to:

- Review the concepts and uses of the Enterprise Portal.
- Explain the major components of the Enterprise Portal.
- Explain the architecture of the Enterprise Portal.

**Module 2:** Installing the Enterprise Portal This module explains how to install Enterprise Portal.

**Lessons**

- Enterprise Portal Requirements
- Installing the Enterprise Portal
- Configuring Enterprise Search
- Installing the Visual Studio Tools
- After completing this module, students will be able to:
- Explain the Enterprise Portal prerequisites

- Install the Enterprise Portal.
- Configure Microsoft Dynamics AX data and metadata to be searchable through Enterprise Search.
- Install the development tools for the Enterprise Portal.

**Module 3:** Enterprise Portal Structure and Permissions This module explains the students the terms of the navigation elements of the Enterprise Portal page and how these elements interact. In addition, it explains the security and permissions features.

**Lessons**

- Structure of the Enterprise Portal
- Security and Permissions

After completing this module, students will be able to.

- Review navigation elements in the Enterprise Portal.
- Explain the different types of pages and their composition.
- Explain security and permissions for the Enterprise Portal.

**Module 4:** Customizing Enterprise Portal Pages

This module explains how to customize and personalize Enterprise Portal Web Part Pages.

**Lessons**

- Customizing Enterprise Portal Appearance
- Customizing Pages
- Web Parts

**Lab** : Edit a PageLab : Create a New Role Center Page

- After completing this module, students will be able to: Create and apply new SharePoint themes.
- Edit and create SharePoint pages.
- Explain the different Enterprise Portal web parts.

**Module 5: Modeling Enterprise Portal Pages**

This module explains to students how modeling pages allows them to create pages quickly and easily by using drag-and-drop and setting properties, without writing code.

**Lessons**

- List Pages
- Modeling List Pages
- Detail Pages
- Creating a Detail Page
- Linking the Detail Page and the List Page

**Lab** : Creating a List PageLab : Create a Preview PaneLab : Create a Cue Group FactBoxLab : Create a Data SetLab : Create a User ControlLab : Create a Detail PageLab : Link the Detail Page and the List Page  
After completing this module, students will be able to:

- Describe the composition of a List Page.
- Create a List Page with a Preview Pane and a FactBox, and publish it to the Enterprise Portal.
- Describe the composition of a Detail Page.
- Model a Data Set, create a User Control and add a Detail Page to the Enterprise Portal in SharePoint.
- Link a Detail Page to the Action Pane and list links on a List Page.

**Lab** : Edit a PageLab : Create a New Role Center Page

After completing this module, students will be able to:

- Create and apply new SharePoint themes.
- Edit and create SharePoint pages.
- Explain the different Enterprise Portal web parts.

**Module 5: Modeling Enterprise Portal Pages**

This module explains to students how modeling pages allows them to create pages quickly and easily by using drag-and-drop and setting properties, without writing code.

**Lessons**

- List Pages
- Modeling List Pages
- Detail Pages
- Creating a Detail Page
- Linking the Detail Page and the List Page

**Lab** : Creating a List PageLab : Create a Preview PaneLab : Create a Cue Group FactBoxLab : Create a Data SetLab : Create a User ControlLab : Create a Detail PageLab : Link the Detail Page and the List Page

After completing this module, students will be able to:

- Describe the composition of a List Page.
- Create a List Page with a Preview Pane and a FactBox, and publish it to the Enterprise Portal.
- Describe the composition of a Detail Page.
- Model a Data Set, create a User Control and add a Detail Page to the Enterprise Portal in SharePoint.
- Link a Detail Page to the Action Pane and list links on a List Page.

**Module 6: Debugging in the Enterprise Portal**

This module focuses on the different debugging methods that can be used in Enterprise Portal development.

**Lessons**

- Overview of Debugging in Enterprise Portal Development
- Debugging X++ in the Enterprise Portal
- Debugging User Controls in Visual Studio
- Debugging User Controls on Enterprise Portal Pages

After completing this module, students will be able to:

- Explain the different debugging techniques that are used with the Enterprise Portal.
- Configure Internet Information Services (IIS) and the Microsoft Dynamics AX Business Connector for debugging X++ in the Enterprise Portal.
- Explain how to debug X++ code running in the Enterprise Portal.
- Explain how to debug User Controls running in the ASP.NET Development Server Environment in Visual Studio 2010.
- Configure the Enterprise Portal to allow debugging.
- Explain how to debug User Controls running in the Enterprise Portal.

**Module 7: Common X++ and C#****Development for Enterprise Portal**

This module introduces the students to the most common Microsoft Dynamics AX User Control elements available in Visual Studio.

**Lessons**

- Data Set Methods
- Data Set Parameters
- Common User Control Elements

**Lab : User Control with Grid**

After completing this module, students will be able to:

- Describe common Data Set methods and their uses.
- Describe the *Args* class and how it can be used to pass parameters to a Data Set.
- Describe the different Microsoft Dynamics AX ASP.NET controls available to a User Control.

**Module 8: Additional X++ and C#****Development for Enterprise Portal**

This module introduces the students to the some additional Microsoft Dynamics AX User Control elements available in Visual Studio.

**Lessons**

- Additional User Control Elements

Record Context

- Eventing
- Labels
- Metadata
- Page Redirection
- Proxies

**Lab :** Connecting Web Parts  
**Lab :** Setting the Detail Page Edit Mode  
**Lab :** Managed Metadata

After completing this module, students will be able to:

- Describe additional less commonly used controls that can be added to a User Control.
- Explain record context in the Enterprise Portal.
- Explain eventing and describe common events used by developers in the Enterprise Portal.
- Explain how to use labels on the Enterprise Portal.
- Explain what metadata is and how to retrieve it from the Enterprise Portal.
- Explain page redirection from code and modal dialog behavior.
- Explain proxies for Microsoft Dynamics AX objects and how to create them.

**Module 9:** Deploying the Enterprise Portal

This module explains the AOT elements involved in the customizations, and how these elements can be deployed across environments.

**Lessons**

- Elements in the AOT
- Model Store
- Deployment

After completing this module, students will be able to:

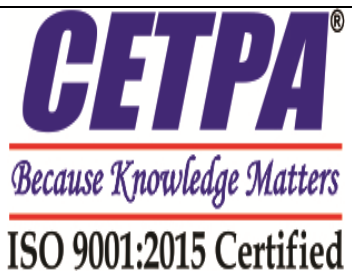
- Describe the Enterprise Portal elements in the Application Object Tree (AOT) and their relationship to the Enterprise Portal website.
- Explain the Model Store and deployment of customizations across environments.
- Describe how to deploy the Enterprise Portal.

**HEAD OFFICE:** 200 Purwawali , 2nd Floor, (Opp. Railway Ticket Agency), Railway Road , Ganeshpur, Roorkee – 247667, Ph.No.: 09219602769,01332-270218 Fax - 1332 – 274960

**CORPORATE OFFICE:** D-58, Sector-2, Near Red FM. Noida -201301, Uttar Pradesh Contact Us: +91-9212172602 , 0120-4535353

**BRANCH OFFICE:** 401 A, 4<sup>th</sup> Floor, Lekhraj Khazana, Faizabad Road, Indira Nagar, Lucknow-220616 (U.P.) Ph. No: +91-522-6590802, +91-9258017974

**BRANCH OFFICE:** 105, Mohit Vihar, Near Kamla Palace, GMS Road, Dehradun-248001, UK Contact: +91-9219602771, 0135-6006070



**Toll Free- 1800-8333-999 (from any network)**