CMIT COMPUTER INSTITUTE

Building Bright Careers Since 1989

ADO.Net Syllabus

Module 1: **Data-Centric Applications and ADO.NET**

The following topics are covered in this module:

- ~ Design of Data-Centric Applications
- ~ ADO.NET Architecture
- ~ ADO.NET and XML

Module 2: **Connecting to Data Sources**
The following topics are covered in this module:

- ~ Choosing a .NET Data Provider
- ~ Defining a Connection
- ~ Managing a Connection
- ~ Handling Connection Exceptions
- ~ Connection Pooling

Module 3: **Performing Connected Database Operations**
The following topics are covered in this module:

- ~ Working in a Connected Environment
- ~ Building Command Objects
- ~ Executing Commands That Return a Single Value
- ~ Executing Commands That Return Rows
- ~ Executing Commands That Do Not Return Rows
- ~ Using Transactions

Module 4: **Building Data Sets**
The following topics are covered in this module:

- ~ Working in a Disconnected Environment
- ~ Building Data Sets and Data Tables
- ~ Binding and Saving a Data Set
- ~ Defining Data Relationships
- ~ Modifying Data in a Data Table
- ~ Sorting and Filtering

Module 5: **Reading and Writing XML with ADO.NET**
The following topics are covered in this module:

~ Creating XSD Schemas
~ Loading Schemas and Data into Data Sets
~ Writing XML from a Data Set

Module 6: Building Data Sets from Existing Data Sources
The following topics are covered in this module:

~ Configuring a Data Adapter to Retrieve Information
~ Populating a Data Set Using a Data Adapter
~ Configuring a Data Adapter to Update the Underlying Data Source
~ Persisting Changes to a Data Source
~ How to Handle Conflicts

Module 7: Building and Consuming a Web Service That Uses ADO.NET
The following topic is covered in this module:

~ Building and Consuming a Web Service That Returns Data