



# MSBI TRAINING COURSE SYLLABUS



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## MSBI Training Course Syllabus

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We do not buy you a job by bribing companies to secure a place in IT, instead we equip you with the skills needed to get employed in IT and will support you with unlimited number of relevant interview opportunities so that your career in IT becomes assured. Our support will be there until you get placed in an IT Company as that's our mission too.

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### Introduction to Data Warehousing and MSBI

- ❖ Fundamental concepts of Data Warehousing
- ❖ Concepts of Dimensions, Measures, Metadata, Schemas
- ❖ Data Marts and Design approaches
- ❖ Normalization and Denormalization and Schema types
- ❖ Online Analytical Processing and Transactional Processing concepts
- ❖ OLAP Cube
- ❖ Types of Slowly Changing Dimensions
- ❖ Explain ETL process and various tasks involved in it
- ❖ Discuss Business Intelligence concepts
- ❖ How BI works with data-warehouse
- ❖ Describe MSBI as One stop Solution

## Introduction to SSIS

- ❖ Understand the MSBI Architecture, Import and Export wizard
- ❖ Understand SSIS Architecture
- ❖ Control Flow & its Components (Tasks, Containers, Precedence Constraints)
- ❖ Data Flow & its Components (Source and Destination Connections, different types of Transformations)
- ❖ Scenarios by combining Control Flow and Data Flow components
- ❖ System Variables and User-defined variables

## Transformations and Use-Cases

- ❖ Data Conversion transformation
- ❖ Multicast transformation
- ❖ Union all transformation
- ❖ Conditional Split transformation
- ❖ Merge and Merge Join transformation
- ❖ Lookup transformation
- ❖ Cached Lookup transformation
- ❖ Foreach loop and use-cases
- ❖ Advancing Execute SQL Task with Object return type and type of Outputs usage
- ❖ Bulk-insert task

## Archival process using dynamic variables and FST

- ❖ Parameters, Event Handling
- ❖ Transaction Options, CheckPoints, Logging options, Log Provider
- ❖ Configure Error Output and OnError event
- ❖ Package Security: Package Protection Levels

## SSIS (Configuration, Deployment and Scheduling)

- ❖ Script Component, Package Configurations (5 types)
- ❖ Debugging & Troubleshooting
- ❖ Executing packages – DTEXec and DTEXecUI
- ❖ Package Deployment
- ❖ Package Scheduling using SQL Agent
- ❖ Understand Package Performance Tuning
- ❖ Learn SSIS Best Practices
- ❖ Package Performance Tuning
- ❖ SSIS Best Practices

## SSAS Deployment and MDX, DAX

- ❖ SSAS Deployment
- ❖ Methods of database deployment
- ❖ Named Calculations and Named queries
- ❖ Aggregation, KPIs, Actions, Perspectives, Translations
- ❖ Cube Processing
- ❖ Different Processing Options
- ❖ Explain MDX and DAX Queries
- ❖ Loading Data into DW using SSIS, MDX queries, DAX Queries
- ❖ Performance Optimization of cube and Dimension, Best Practices
- ❖ Schedule the Cube processing

## SSRS Reporting

- ❖ SSRS Features
- ❖ Reporting Services Architecture & Lifecycle
- ❖ Report Parameters and Multi-Valued
- ❖ Cascaded Parameters
- ❖ Types of Reports: Parameterized, Linked, Snapshot, Cached, Ad hoc, Clickthrough, Drillthrough, Subreports
- ❖ Creating Groups, Filters, Expressions Sort and Interactive Sort, Alternate Row Colors, Repeating Row Headers and Column Headers
- ❖ Describe Mobile report publisher
- ❖ Exporting Reports to different formats

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