

## Course Topics: DATAWAREHOUSING TESTING

### Understanding Business Intelligence

Analyze the current state of the data warehousing industry

Data warehousing fundamentals

Operational data store (ODS) concepts

Data mart fundamentals

Defining meta data and its critical role in data warehousing and testing

### Key Principles in Testing

Introduction

Testing concepts

Overview of the testing and quality assurance phases

### Project Management Overview

Basic project management concepts

Project management in software development and data warehousing

Testing and quality assurance as part of software project management

### Requirements Definition for Data Warehouses

Requirements management workflow

Characteristics of good requirements for decision support systems

Requirements-based testing concepts and techniques

### Audiences in Testing

Audiences and their profiles

    User profiles

    Customer profiles

    Functional profiles

Testing strategies by audience

Test management overview

### Risk Analysis and Testing

Risk analysis overview for testing

## Test Methods and Testing Levels

- Static vs. dynamic tests
- Black, grey and white box testing
- Prioritizing testing activities
- Testing from unit to user acceptance

## Test Plans and Procedures

- Writing and managing test plans and procedures
- Test plan structure and test design specifications

## Test Cases Overview

- Test case components
- Designing test scenarios for data warehouse usage
- Creating and executing test cases from scenarios

## Validation and Verification

- Validating customer needs for decision support
- Tools and techniques for validation, verification and assessment

## Acceptance Testing for Data Warehouses

- Ways to capture informal and formal user issues and concerns
  - Test readiness review
  - Iterative testing for data warehouse projects

## Reviews and Walk-throughs

- Reviews versus walkthroughs
  - Inspections in testing and quality assurance

## Testing Traceability

- Linking tests to requirements with a traceability matrix
  - Change management in decision support systems and testing