**SAP BO 4.2 Administration Course Content**

**BO Landscape**

DEV environment /DEV server
QA environment /QA server
UAT environment /UAT server
PROD environment /PROD server

**Installation**
**Pre-requisites**
**Client Installation**
**Server Installation (Cluster Installation)**
**Central Management Console (CMC)**
**BO Application Knowledge**

UDT – Universe Designer Tool
IDT – Information Designer Tool
Webintelligence Rich Client
Dashboard Enterprise 4.0

**o Live Office**
**o Query Builder**

Crystal Reports Enterprise 4.0
Conversion of UNV files to UNX files
Migrating crystal reports from lower version to higher version

**Folder Management**

Publics Folders
LOB (line of business) folders
Favorite Folders
Inbox

**Security Modeling**

User & User Group Management
Default Access Levels
Customized Access Levels
Application rights

**Content Management**

Universe connections
Universes (UDT – .unv files) and (IDT – .unx files)
Webintelligence documents (.wid files)
Crystal Reports (.RPT)
Dashboards (.xlf &.swf)

**BO Services**

Central Management Server (CMS)
Central Configuration Manager (CCM)
SIA – Server Intelligence Agent

**FRS – File repository Server**

IFRS – Input File Repository Server
OFRS – Output File Repository Server

**Web Server Management Application**
**Tomcat**
**Distributing content using scheduling and alerting**

Deployments/promotions/Transportations – Promotion Management
DEV to QA deployment
QA to UAT deployment
UAT to PROD deployment
Revert back approaches
Backup mechanism

Version upgrade – Upgrade Management Tool (UTM)

Bulk upload approach
Incremental migration

CMC preferences
BOBI 4.2 Architecture
System Configuration Wizard

Events
Scheduled Events

Authentication
Enterprise Authentication

License Keys
Concurrent Users
Named users

Instance Manager
Calendars
Performance tuning methods at BOE platform level

**SAP BUSINESS OBJECTS 4.2**

Fundamental Concepts:

Definitions of Data warehouse
History of Data warehouse
Characteristics of Data warehouse
Data Marts
Tables (Dimensions and Fact Tables)
Star Schema, Snowflake Schema/Extended Schema and Multiple Star Schema

Database Concepts:

Introduction to databases
Importance of Database
DDL, DML, DQL, DCL and TCL
Structuring of tables and Data Types
Numeric Functions, Character Functions, Date Functions, Aggregate Functions
Set Operators
Joins and Types of Joins and their importance (PK, FK)
Group by, Having, Where conditions

Life Cycle Management

Functional Specifications (FDD)
Business Requirement (BRD)
Project Plan
Technical Design Document (TDD)
Development execution
Unit Test case preparation
Deployment Check list

Pre requisites of BO
Non SAP applications as backend
ODBC Connection (32 & 64 bit Operating System)
Knowledge on SAP BW BI (Cubes, BEX queries)
Knowledge on HANA

**BO Universes**

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| **Universe Designer  Tool – UDT** | **Information Designer Tool – IDT** |
| Personal Connection | Local Connection (.CNX) |
| Shared Connection | Secured Connection (.CNS) |
| Secured Connection | Data Foundation (.DFX) – Connection, Context and Alias, Parameters and LOV’s |

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| Difference between Section & Break | Hyper Linking Functionalities |
| Alerter | Usage of Web Intelligence Rich Client Application |
| Ranking | Scheduling of Webi Report |
| Sorting | Folding and Unfolding of Reports |
| Merged Dimensions |  |
| Combined Queries  (Union, Intersection and Minus) |  |

**Canned Reports**

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| **Crystal Reports** |
| Introduction to CR | Field Explorer |
| Use of CR and its features | Repository Explorer & Database Expert |
| Difference between BO and CR | Report Templates |
| Standard Reports | Inbuilt Functionalities |
| Blank Report | SAP Platform interaction – BEX, Cubes, Info sets etc., |
| Cross Tab Report | RDBMS Databases interaction |
| Creation of New CR | MS Access interaction |
| Different Data source Connections | **\*\*** Maintenance and  scheduling of Crystal Reports via BI Launch Pad application |
| Creation of CR with Universe |
| Creation of CR without Universe |
| Creation of Groups and Calculations |
| Working with Sub Reports |
| Charts |

**Dashboards**

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| **Dashboard Design (Static & Dynamic)** |
| Introduction to Dashboards | Data Manager Connections |
| Types of Dashboards | Data Layer |
| Data Sources (or) Info Providers | Canvas layer |
| Generation of dashboards | Components Layer |
| Working with Data By Range, By Series | Properties Layer |
| Working with Dual Axis dashboard | Objects Browser |

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| --- | --- |
| Working with Calendar & Bar Chart dashboard | Live Office (Universe, Web Intelligence, Crystal Report) |
| Working with Filter and multiple Charts dashboard | QAAWS Connectivity |
| Data Import and Exports | Query Builder |

 **Web Based Applications of SAP BO:**

**BI Launch Pad**

* Generation of Webintelligence reports
* Scheduling of Webi and Crystal reports
* Sending of Webi and Crystal reports
* Storage of Local documents (Organize and maintain documents)
* Folder structuring based on Line of Business

**Performance Tuning Methods of SAP BO**

* Tuning at Universe Level
* Tuning at Report Level
* Tuning at Database Level
* Query Optimization Methods

**Additional Reporting Applications**

* SAP LUMIRA -> Self Reporting Tool (Desktop Version)
* BO Explorer -> Self Reporting Tool (URL based application)
* Widgets
* QAAWS – Query As A Web Service

**Error Handling Methods**

* How to handle errors across the environments in Real Time scenarios.
* Trouble shooting tips and tricks

**Project Explanation in terms of Real Time scenarios**

* Project Overview (Life Cycle)
* Project Domain Explanation
* Designing the workflow
* Project Templates
* Report Requirement Templates

**Contact Information** ;

**SKYPE ID: adithyaelearning**
**Contact : +91 8790679998,**
**EMAIL : adithyaelearning@gmail.com ,**