**ADF I**

Intended for: Developers

Prerequisites: Java programming language Basics (helpful, not required)

Duration: 5 days

Code: NEOSADFI11

The course will teach you how to successfully use latest edition of Oracle ADF, as one of the most advanced JEE environments that simplifies application development and enables the development in visual and declarative way.

The course covers working with ADF BC components for implementing business logic as well as ADF Faces components for developing user interfaces.

You will learn how to create ADF BC components based on tables in the database, how to implement business logic, and how to use ADF BC components on the user interface for the development of the basic page elements such as forms and tables.

Although much can be implemented in declarative manner, the course covers more advanced features, such as the usage of Java classes for implementing business logic, accessing the DB procedures, override of existing methods, etc. For the purposes of performing exercises JDeveloper 12c IDE is used.

**ADF**

What is ADF

MVC usage

ADF BC introduction and implementation

Creation of ADF Application and basic settings

Quick overview of the basic ADF components

**ADF BC Entity Objects**

Usage and design of Entity Objects

Synchronization with DB

Associations, Properties and Attribute Types

User interface settings

Usage of the groovy expression and Java classes

**ADF BC View Objects**

Usage, method creation and types

Relations between View Objects, Master-Detail relationships

Working with View Criteria for Data Search

Creating Model driven List of Values

Usage of calculated/transient attributes

Implementation of validation and business rules declaratively or with Java classes

**ADF BC Application Module**

Purpose and basic setup

Usage for testing purposes

Development of custom methods and exposure to client

Accessing the DB procedures

**ADF Faces**

Creating JSF pages and templates

Navigation between pages

UI components (layout and basic components), List of values

ADF Faces lifecycle and PPR (AJAX) usage

Applying View Criteria for searching

Creating forms, tables, Master-Detail components

Management of the messages and the site content

Transfer of parameters between pages

**Managed Java Beans**

Purpose and types

Design and method of administration

Overriding declarative methods

**ADF application debug**

Applying Oracle Diagnostic Logging (ODL)

Log Analysis

Debug using the ADF BC Tester

Creating a custom Java class for testing and debugging

ADF Declarative Debugger

**ADF II**

Intended for: Developers

Prerequisites: Java programming language Basics, ADF I

Duration: 5 days

Code: NEOSADFII11

The course is a logical extension of the ADF I course and it covers advanced topics in usage of Oracle ADF development environment. It covers working with ADF Task-Flows that are a key element of the ADF Framework and allow managing the execution flow within the page itself and the use of components in a number of pages. It also deals with the ADF Security implementation, Multilanguage support, Skin definition, and more types of ADF Faces components such as components for data visualization and popup window. In addition to ADF Faces components this course covers latest standards in developing GUI based on Oracle Alta UI.

The ADF II course covers more advanced Java methods that can be used in the backing bean classes to access data from binding layer.

For the purposes of performing exercises JDeveloper 12c IDE is used.

**ADF Task Flow**

Purpose and types

Task flow features

Usage of parameters

**ADF Page Fragments**

Creating fragments

Usage of fragments on the page

Communication between fragments

**Skins**

Creating templates

Creating skins

Configuration files

**ADF BC Application Module – Advanced**

Creating nested application modules

Activate and Passivate instance states

Usage of session variables

**Multilanguage support**

Support for UI and BC components

Runtime change of language

**Security**

What is the ADF Security

Configuration files

Authorization and authentication

**Advanced options**

Accessing the application module from backing beans

Working with view iterators from backing beans

Working with tables from backing beans

**ADF Faces components**

Popup Dialog

ADF Data Visualization

Train component

Export to Excel, downloading images into the database

Applying JavaScript

**ADF Alta UI**

Introduction to Alta UI patterns

Building responsive design

**Application deploy**

Creating EAR file

Deploy on the WebLogic Server

Creating .EAR archives

Deploy process

ADF Library JAR archive - components usage

Oracle WebLogic Basic Administration

Intended for: Administrators and Developers

Prerequisites: None

Duration: 2 days

Code: NEOSWL11

The course covers the administration of Oracle WebLogic 12c server application basics. The purpose of the course is to train participants for installation of the application server (regardless of platform), the basic configuration, applications deployment and ways to detect problems during running state. Throughout the course the participant becomes familiar with the basic concepts of WebLogic architecture and upon completion of the course is able to plan/implement architecture of the complex production environment. The course serves as a demonstration of best practices in the configuration of managed servers and clusters through the administration console, but also through WLST. Special attention is given to deployment of applications (introducing the Deployer tool) as well as their protection (security provider).

The course enables creation and the detailed configuration of the JDBC DataSources and administration of JNDI. The last part of the course includes an overview of methods of collecting data through WLDF environment (log, watches, instrumentation, harvesting) as well as the ability of generating notifications. In practical exercises gradually a complete test environment for Oracle WebLogic Application Server on top of Oracle Linux OS will be built. An integral part of the environment/exercises are pre-installed database (for creating SQL security provider) and the war files (for deployment and to define a proxy server for the cluster).

**WebLogic platform**

Distributed systems

JEE

WebLogic architecture

Domain

Servers (Admin, Managed)

Machine, Node Manager

Cluster

Installation

Creating a domain

Configuring Node Manager

The basic configuration of servers

**The administration console**

Review of the administration console

WLST basics

Creating server instances

Server instances tuning

WorkManager

Creating and configuring clusters

**JDBC, JNDI, Deploy**

Creating JDBC DataSource

JDBC connection pool tuning

Overview of JNDI properties

JNDI administration

Installing applications on WebLogic Server

Installing applications in a production environment

**Security and Diagnostics**

Configuring security settings

Creating and configuring security provider

Administration of users and roles

Protecting resources on the server

Protection against attacks

Collecting and analyzing data in a WDLF environment

Logging settings

Instrumentation

Harvesting

Watches

Notifications