

APEX Advanced

Audience Advanced Course APEX

The course APEX Advanced is intended for developers who already have some experience in developing web applications with APEX on an Oracle database.

Prerequisites APEX Advanced Course

To participate in the course APEX Advanced basic knowledge of HTML, CSS and JavaScript is required as well as basic knowledge and experience in developing with APEX.

Realization Training APEX Advanced

The course is given with the newest version of Oracle and APEX. The theory is treated on the basis of presentation slides and demos and is interspersed with exercises.

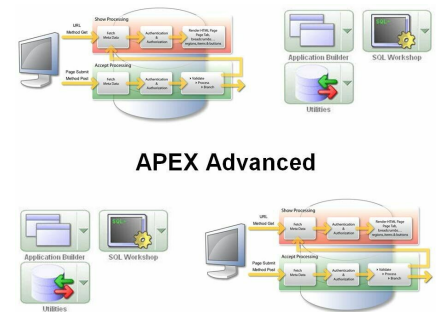
Certification APEX Advanced

Participants receive an official certificate APEX Advanced after successful completion of the course.

Duration: 3 days

Price: € 1950

[Open Schedule](#)



Content Course APEX Advanced

In the course APEX Advanced developers learn the more advanced options of developing with Oracle APEX. After completing the course, participants have a good understanding of advanced APEX concepts and techniques such as the use of advanced queries and integration with external systems, web services and APIs.

Advanced Page Processing

The course Advanced APEX starts with a discussion of the integration of SQL and PL/SQL in Oracle APEX when implementing advanced query techniques, stored procedures, functions and optimizations.

Security

Various aspects of security and authentication are also covered. Topics are APEX Account Credentials, Session Creation and Session State Protection (SSP).

Dynamic Actions

Next concepts related to Oracle APEX triggers and dynamic actions are on the Advanced APEX course program. Topics include trigger architecture, event-based triggers, the dynamic action framework and best practices for designing interactive and responsive APEX applications.

Web Services

The integration of APEX applications with external systems and APIs is also treated. In addition to data formats such as SOAP, JSON, topics also include WSDL, RESTful Web Services, APEX Web Services, Oracle REST Data Services (ORDS) and RESTful Data Services.

Design Patterns

Furthermore advanced design patterns for building modular, reusable and maintainable applications in Oracle APEX are covered. Topics include the Model-View-Controller (MVC) architecture, developing plug-ins, reuse of components and template options.

More Apex Features

Finally more advanced aspects of page processing are discussed. For example it is demonstrated how the combination with JavaScript and HTML offers advanced functionality in APEX. And also there is a look ahead to the latest features of APEX.

Modules Course APEX Advanced

Module 1 : Advanced Page Processing	Module 2 : Security	Module 3 : Dynamic Actions
SQL en PL-SQL Integratie PL/SQL packages Cursor Management, Public APEX API's Internal APEX API's Advanced Interactive Reports Parameterized Reports Stored Procedures Advanced Queries Performance	Implementing Security Access Control Authorization and Authentication Authentication Schemes Creating Authentication Scheme APEX Account Credentials Custom authentication LDAP en SSO Session Creation Session State Protection (SSP)	Dynamic Action Framework Trigger Architecture Event Based Triggers Ajax en XMLHttpRequests Partial Page updates Callback Functions CORS Policy Dynamic HTML and JavaScript PDF from Reports XSL-FO Integration
Module 4: Web Services	Module 5: Design Patterns	Module 6 : More Apex Features
API Integratie REST Services REST Data Services SOAP and WSDL standard Creating Web Service References Web Service Reference from WSDL Web Service Reference Manually Using Web Services	Modular Architecture MVC Patterns Models and Controllers Views and Templates Dependency Injection Component Reuse Reusability Plug-in Development	JavaScript Integration New Page Designer New Navigation methods Model Pages File Management Calendar Enhancements New Themes New Templates