

PROFESSIONAL TRAINING COURSE



5 Days Course on
Advanced PHP and Oracle PL/SQL
for Web Application Development
Intermediate to Advance



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Two Sigma Technologies
Suite B, 19-2, Jalan PGN 1A/1, Pinggiran Batu Caves,
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Advanced PHP and Oracle PL/SQL for Web Application Development

This Intermediate-to-Advanced Course teaches PHP-Oracle developers the advanced concept and skills to create robust web applications using PHP and Oracle. In advanced PHP programming module, it would covers object-oriented development, processing XML, creating and consuming SOAP-based web services, handling AJAX calls, and securing PHP. This course also helps the developers to focus on writing stored procedures, functions, packages, and triggers, and implement complex business rules in Oracle. They will learn programming, management, and security issues of working with PL/SQL program units. Programming topics will include the built-in packages that come with Oracle, the creation of triggers, and stored procedure features. This also includes developing and tuning efficient and effective PL/SQL subprograms.

Pre-requisites

All attendees must be familiar with the fundamentals of building data-driven PHP web applications and Oracle DBA, either from their own experience or from previous basic training course.

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fee	Contact Us at sales@2-sigma.com
Audience	IT Officer, Web Developer and Programmer
Level	Intermediate to Advance

Advanced PHP and Oracle PL/SQL - Schedule

Day 1	
9.00am – 10.00am	Object-Oriented PHP <ul style="list-style-type: none"> • Building a Class • Constructors and Destructors
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	<ul style="list-style-type: none"> • Working with Properties and Functions • Private, Protected, Public modifiers • Inheritance • Interfaces
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	PHP XML Support <ul style="list-style-type: none"> • Simple XML Object • Executing XPath Queries • DOM Interoperability • Using XPath • XSLT and PHP

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Day 2	
9.00am – 10.00am	PHP Web Services <ul style="list-style-type: none"> • Web Services Technology Stack • Web Services with PHP • Working with PHP and WSDL • PHP and SOAP • Debugging Web Services
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	PL/SQL Programming Concepts Review <ul style="list-style-type: none"> • Identify PL/SQL block structure • Create procedures • Create functions • List restrictions and guidelines on calling functions from SQL expressions
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	<ul style="list-style-type: none"> • Create packages • Review of implicit and explicit cursors • List exception syntax • Identify the Oracle supplied packages Designing PL/SQL Code <ul style="list-style-type: none"> • Describe the predefined data types • Create subtypes based on existing types for an application • List the different guidelines for cursor design • Cursor variables
Day 3	
9.00am – 10.00am	Using Collections <ul style="list-style-type: none"> • Overview of collections • Use Associative arrays • Use Nested tables • Use VARRAYs
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	<ul style="list-style-type: none"> • Compare nested tables and VARRAYs • Write PL/SQL programs that use collections • Use Collections effectively • Executing PL/SQL Code in PHP • Passing XML to stored procedure via PHP
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Manipulating Large Objects <ul style="list-style-type: none"> • Describe a LOB object • Use BFILEs • Use DBMS_LOB.READ and DBMS_LOB.WRITE to manipulate LOBs • Create a temporary LOB programmatically with the DBMS_LOB package • Introduction to SecureFile LOBs • Use SecureFile LOBs to store documents

	<ul style="list-style-type: none"> • Convert BasicFile LOBs to SecureFile LOB format • Enable reduplication and compression • File Manipulation in Oracle using PHP
Day 4	
9.00am – 10.00am	Ajax with PHP <ul style="list-style-type: none"> • Ajax Overview • Ajax on the Server • Ajax on the Client • JSON, Ajax and PHP
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	Performance and Tuning <ul style="list-style-type: none"> • Understand and influence the compiler • Tune PL/SQL code • Enable intra unit inlining • Identify and tune memory issues • Recognize network issues
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Improving Performance with Caching <ul style="list-style-type: none"> • Describe result caching • Use SQL query result cache • PL/SQL function cache • Review PL/SQL function cache considerations Analyzing PL/SQL Code <ul style="list-style-type: none"> • Finding Coding Information • Using DBMS_DESCRIBE • Using ALL_ARGUMENTS • Using DBMS_UTILITY.FORMAT_CALL_STACK • Collecting PL/Scope Data • The USER/ALL/DBA_IDENTIFIERS Catalog View • DBMS_METADATA Package
Day 5	
9.00am – 10.00am	Safeguarding Your Code Against SQL Injection Attacks <ul style="list-style-type: none"> • SQL Injection Overview • Reducing the Attack Surface • Avoiding Dynamic SQL
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	<ul style="list-style-type: none"> • Using Bind Arguments • Filtering Input with DBMS_ASSERT • Designing Code Immune to SQL Injections • Testing Code for SQL Injection Flaws • PHP and Security <ul style="list-style-type: none"> - General PHP security - Data Validation - Protecting against SQL Injection - Thwarting Cross-site Scripting - Sensitive Data Management



1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Work with Mini Project

More Information

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.

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