

eNSYNC: Your Certified Oracle Partner

Advanced Oracle PL/SQL Programming for IFS Applications Course Syllabus



Course Purpose

This course will teach experienced PL/SQL application developers advanced methods to integrate IFS with other applications at the database level using Oracle objects, IFS message tables, and IFS API sets. Any IFS developer on your staff responsible for developing integrations with your IFS system would benefit from this class. Demonstrations and hand-on practice will reinforce the concepts you'll delve into in this course.

Course Description

This training starts with a quick review of the Oracle database architecture and objects specific to IFS. We will then review the Oracle PL/SQL programming techniques for migrating data from text, CSV, and XML data files. Through hands-on instruction you'll learn to develop stored procedures, functions, packages to manage IFS objects. For example, create your own EDI transactions, or generate PDF documents in memory, or enhance email routines, or exchange data with another computing system.

Training materials, manuals and documents are provided to the students as part of the classroom experience.

Course Dates and Location

November 5-9, 2018 | **April 15-19, 2019** | **August 19-23, 2019**

Class will primarily be taught near the new eNSYNC Solutions, Inc. corporate office located in downtown Kansas City, Missouri. Hotels are a short distance away (several are within walking distance). Lunch is provided to students on the first day of class.



To Register

Please contact **816.416.5645**

or email us at training@ensyncsolutions.com

V2: 9-28-2017

Course Objectives



Learn what IFS packages are available in the Oracle database and how to access them.
Design PL/SQL packages and program units that execute efficiently.



Write code to interface with external applications and the operating system.

Create your own custom database objects to store data and integrate IFS
with other applications.

Create database triggers and IFS events to solve business challenges.

Student Prerequisites



Previous programming experience.

Basic knowledge of IFS.



Completion of the Oracle PL/SQL Programming for IFS Applications course.

Laptop with a Remote Desktop client installed.

Familiarity with a database development tool such as PL/SQL Developer or TOAD.

ORACLE

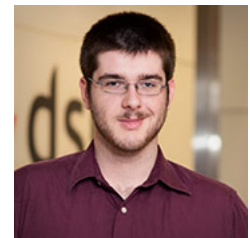
PL SQL
Training

Instructor Contact Information

Instructor: **Randy Grasmick**

Email: randy.grasmick@dsiglobal.com

Phone number: **816.416.5689**



Instructor Background

Randy has over five years of both Oracle and IFS administration experience. He has developed an array of solutions for IFS customers to streamline reporting, integration with other applications and data migration. Randy is also a software architect and developer for eNSYNC IFS products and integrations.

Class Size – Limited to 8 Students

Course Duration – 4.5 days (see daily schedule to follow)

Course Price – \$2,000/Student

"Automated Packaging received excellent training on PL/SQL for IFS and continues to benefit from some insightful tips and techniques. I would highly recommend this course, and instructor Alan Clark for any organization seeking to improve their return on information from IFS Applications. Great course, great value. Thank You eNSYNC."

Bill Mickey, System Development Manager-IT
Automated Packaging Systems, Inc.
Bill.Mickey@autobag.com



Course Outline

Shown below is a quick summary of the topics we will cover during class and in the order we will cover them.



Course Schedule



Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Introduction, Class Overview, & Expectations
9:30 AM	10:00 AM	0:30	Oracle Database Overview & Architecture
10:00 AM	10:15 AM	0:15	Connect to the Database For Training
10:15 AM	11:00 AM	0:45	IFS Oracle Database Objects; Tables, Data Types, Views, Packages, Sequences
11:00 AM	11:30 AM	0:30	IFS Object Scavenger Hunt
11:30 AM	12:00 PM	0:30	Oracle PL/SQL Language Review
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	2:00 PM	1:00	Common Code: ESI Output, Files
2:00 PM	2:15 PM	0:15	Exercise 1
2:15 PM	2:30 PM	0:15	Exception Handling
2:15 PM	2:45 PM	0:30	Exercise 2
2:30 PM	3:00 PM	0:30	Database & IFS Background Jobs
3:00 PM	3:30 PM	0:30	Exercise 3
3:30 PM	4:00 PM	0:30	Review Broken Code
4:00 PM	4:30 PM	0:30	Q&A Wrap up



Day

Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Review of Previous Day
9:30 AM	10:00 AM	0:30	Data Migration Overview
10:00 AM	10:30 AM	0:30	Data Migration Tables
10:30 AM	11:00 AM	0:30	Data Migration Scripts
11:00 AM	12:00 PM	1:00	Migration Exercise 1
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	1:30 PM	0:30	Migration Exercise 2
1:30 PM	2:00 PM	0:30	Migration Q&A
2:00 PM	2:30 PM	0:30	Email API's & Tools
2:30 PM	3:00 PM	0:30	Email Exercise 1
3:00 PM	3:30 PM	0:30	Better Looking Email Messages
3:30 PM	4:00 PM	0:30	Email Exercise 2
4:00 PM	4:30 PM	0:30	Q&A Wrap up



Day

Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Review of Previous Day
9:30 AM	10:00 AM	0:30	IFS Message Handlers
10:00 AM	10:30 AM	0:30	IN Exercise
10:30 AM	11:00 AM	0:30	OUT Exercise
11:00 AM	11:30 AM	0:30	CSV, TEXT, XML
11:30 AM	12:00 PM	0:30	CSV, TEXT, XML Exercise 1
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	2:00 PM	1:00	CSV, TEXT, XML Exercise 2
2:00 PM	2:15 PM	0:15	Break
2:15 PM	2:45 PM	0:30	IFS Report PDF Files
2:45 PM	3:45 PM	1:00	IFS Report PDF Files Exercise
3:45 PM	4:15 PM	0:30	Q&A Wrap up



Day 



Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Review of Previous Day
9:30 AM	10:00 AM	0:30	In Memory Documents
10:00 AM	10:30 AM	0:30	Spreadsheet
10:30 AM	11:30 AM	1:00	Spreadsheet Exercise
11:30 AM	12:30 PM	1:00	Lunch
12:30 PM	1:30 PM	1:00	PDF
1:30 PM	2:30 PM	1:00	PDF Exercise
2:30 PM	3:30 PM	1:00	Review & Class Project Selection
3:30 PM	4:00 PM	0:30	Development Assignments
4:00 PM	4:30 PM	0:30	Q&A Wrap up



Day 

Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Review of Previous Day
9:30 AM	12:00 PM	2:30	Class Project Development
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	2:00 PM	1:00	Class Project Demonstration
2:00 PM	2:30 PM	0:30	Q&A Wrap up
2:30 PM	3:00 PM	0:30	Graduation



To Register

Please contact Vanessa Christian at 816.416.5645
or email us at training@ensyncsolutions.com

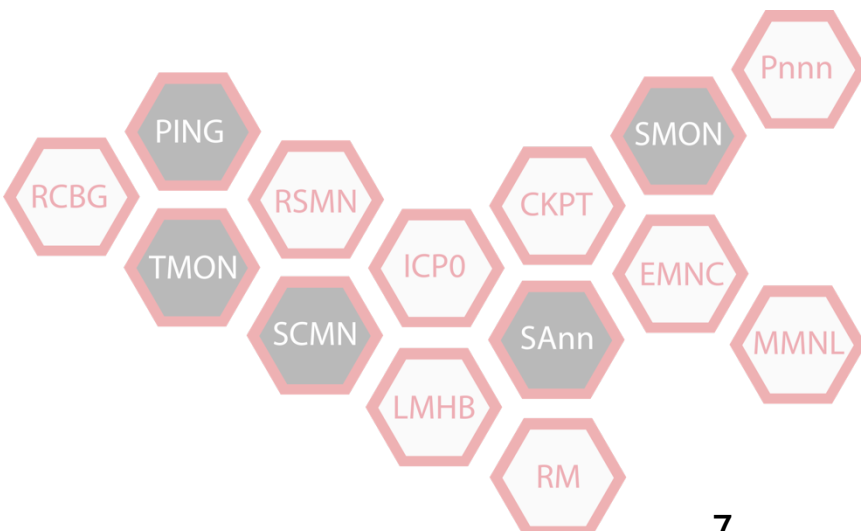


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Our industry knowledge and IFS Applications experience, coupled with our strong domain expertise in mobile data collection, product extensions and enhancements help manufacturers leverage their ERP investment. For more information, please visit our website.

www.ensyncsolutions.com



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