

# eNSYNC: Your Certified Oracle Partner

## Oracle for IFS Protect & Restore Training Syllabus



### Course Purpose

This course will teach system and database administrators how to create and implement a unique backup strategy, as well as how to identify and resolve many of the common problems in Oracle. Any Oracle DBA or IT member on your staff would benefit from this class. Demonstrations and hand-on practice will reinforce the concepts you'll delve into in this course.

### Course Description

In this workshop we will simulate the most commonly experienced database issues, and walk you through the steps to quickly identify and resolve them—before it becomes a problem. Discover how to develop and implement your own backup strategy to recover from any eventuality. What's more, you will learn how to fine-tune the RMAN command line and graphical interfaces to maintain optimal system performance.

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

### Course Dates and Location

Based on your staff's schedule and instructor availability

The class is taught at your site. You get the benefit of monitoring and making changes to your own IFS infrastructure.



**To Register**

Please contact **816.416.5645**  
or email us at [training@ensyncsolutions.com](mailto:training@ensyncsolutions.com)

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## Course Objectives

SCMN  
(Thread)

Develop backup strategies and recovery procedures based on your business needs

Quickly identify and resolve many of the common database malfunctions

Overcome database speed issues, locks and crashes

SMCO  
(Space)

Prevent database crashes and avoid problems

## Student Prerequisites

Pnnn  
(Parallel)

Previous programming experience

Basic knowledge of IFS

Laptop with a Remote Desktop client installed

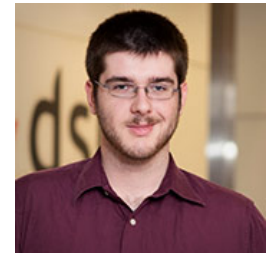


## Instructor Contact Information

Instructor: **Randy Grasmick**

Email: [randy.grasmick@dsiglobal.com](mailto: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** – \$3,000/Student

## Course Outline

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



Oracle Database Architecture Overview

Backup and Recovery Overview

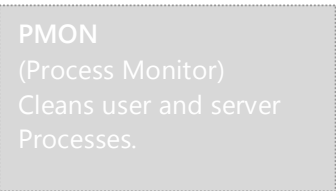
Oracle Backup Tools



Cold

Hot

RMAN



Plan Backup and Recovery Procedures

Configure for Recoverability

Performing Backups

Restore and Recovery Introduction

Performing Recovery

Improving Backups

Testing Backups

Missing and Corrupt Items

Diagnosing Database Failures

Restore and Recovery Concepts

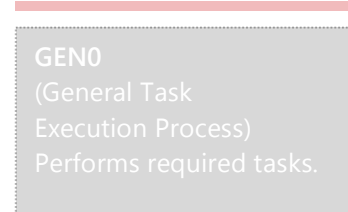
Crash Recovery

Duplicating a Database

Standby Database Concepts

Identify IFS Specific Issues

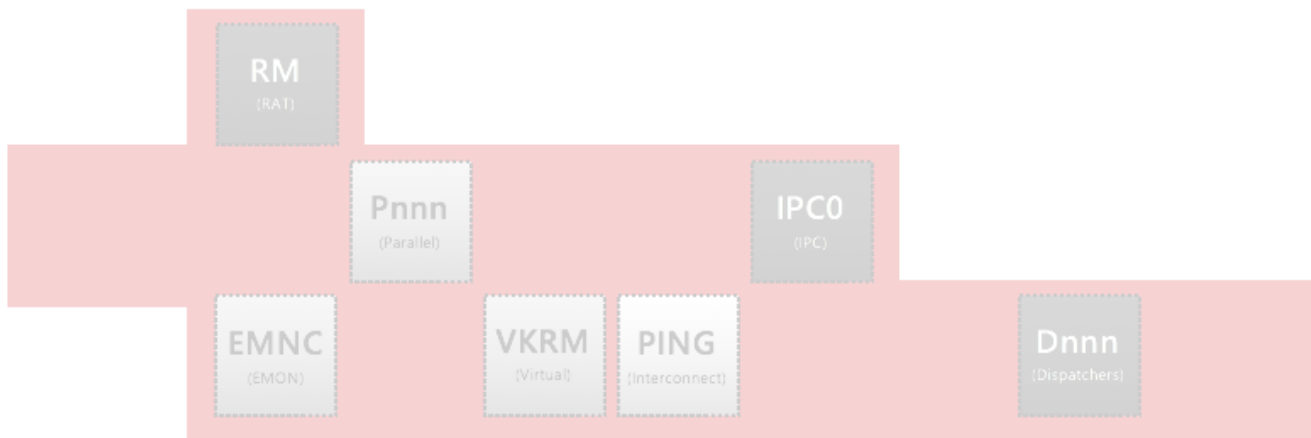
Fix Performance Issues



# Course Schedule



Start	End	Time	Activity / Presentation
9:00 AM	9:30 AM	0:30	Introduction, class overview and expectations
9:30 AM	10:00 AM	0:30	Oracle database overview, architecture and concepts critical for backup and recovery
10:00 AM	10:30 AM	0:30	Overview of Oracle tools for backup; cold, hot, RMAN
10:30 AM	11:00 AM	0:30	Plan effective backup and recovery procedures
11:00 AM	12:00 PM	1:00	Configure the database for recoverability (orcl)
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	3:30 PM	2:30	Performing backups: RMAN backup types, incremental, fast, block, reporting, managing
3:30 PM	4:00 PM	0:30	<b>Exercise One: Backup Database (orcl)</b>
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	Restore & recovery concepts
10:00 AM	10:30 AM	0:30	Performing recovery, part 1
10:30 AM	11:00 AM	0:30	Performing recovery, part 2
11:00 AM	11:30 AM	0:30	Configure the database for recoverability (orcl)
11:30 AM	12:00 PM	0:30	Backup the database (orcl)
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	1:30 PM	0:30	Reviewing backups
1:30 PM	2:00 PM	0:30	Improving your backups
2:00 PM	2:30 PM	0:30	Testing backups
2:30 PM	3:00 PM	0:30	<b>Exercise One: Simple Destruction</b>
3:00 PM	3:30 PM	0:30	<b>Exercise Two: Missing Items</b>
3:30 PM	4:00 PM	0:30	<b>Exercise Three: Corrupt Items</b>
4:00 PM	4:30 PM	0:30	<b>Exercise Four: Black Hole</b>
4:30 PM	5:00 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	Diagnosing Database Failures: Reducing diagnosis time, automatic diagnosis, interpreting RMAN output, data recovery advisor, data file loss, block corruption
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	2:30 PM	1:30	Restore & Recovery Concepts: Restoring & recovering, instance failure, media failure, complete recovery overview, point in time recovery
2:30 PM	3:00 PM	0:30	<b>Exercise One: Crash Recovery</b>
3:00 PM	3:30 PM	0:30	<b>Exercise Two: Complete Recovery</b>
3:30 PM	4:00 PM	1:00	<b>Exercise Three: Recover to Another Platform</b>
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	10:30 AM	1:00	Duplicating a database
10:30 AM	11:30 AM	1:00	<b>Exercise One: Clone Me</b>
11:30 AM	12:00 PM	0:30	<b>Exercise Two: Clone Me Again</b>
12:00 PM	1:00 PM	1:00	Lunch
1:00 PM	2:00 PM	1:00	Recovery review
2:00 PM	3:00 PM	1:00	Standby database concepts
3:00 PM	4:00 PM	1:00	<b>Exercise Three: Standing By</b>
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	11:00 AM	1:00	IFS Specific Issues: Database CPU 100%, database locks, no more disk space, no space for archives, max sessions/processes, changed hardware, locked accounts
11:00 AM	12:00 PM	1:00	Performance Issues: CPU, background jobs, Init parameters, snapshots too old, printing agents/servers, bottlenecks (CPU, memory, disk)
12:00 PM	1:00 PM	1:00	Q&A wrap-up



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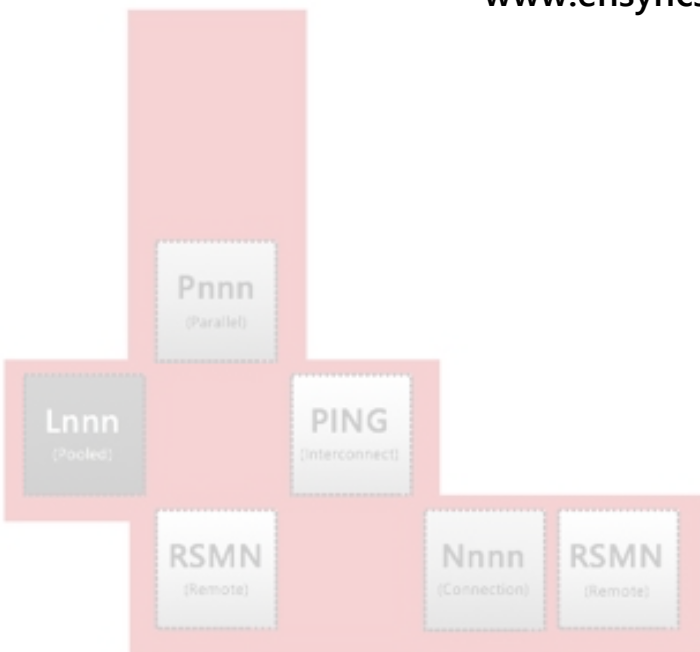


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Our industry knowledge and IFS Applications experience, coupled with our strong domain expertise in mobile data collection, product extensions and enhancements help manufacturers leverage their ERP investment. For more information, please visit our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

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