EDB358

System and Database Administration: Adaptive Server Enterprise

COURSE OUTLINE

Course Version: 15
Course Duration: 5 Day(s)
Typographic Conventions

American English is the standard used in this handbook. The following typographic conventions are also used.

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<tr>
<th>Description</th>
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<td>This information is displayed in the instructor’s presentation</td>
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About This Handbook
This handbook provides you with basic information for attending your virtual live classroom session.

Adobe Connect Support Information
Web and audio support is available by:

- Pressing *0 from within the audio-conferencing
- Calling the support hotline numbers listed below
- Emailing the PGi support hotline below

Global PGi Support Hotline for SAP Education (24/7)
Tel: +1 800-368-1945
Tel: +1 719-234-7915

Note: After dialing in, press option 2 for technical support. You will then be presented with two options – press 1 for Audio support, or press 2 for Web support.
Email: sapedsupport@premiereglobal.com

Setting up your Learning Environment
Ideally you want to be in a private room when participating in a synchronous (live) event. In reality, you may not be able to arrange that. Here are some tips for maximizing your learning environment:

- Create an inspirational office/studio to work in
- Use a comfortable chair
- Use well designed and functional computer peripherals
- Keep a log or journal of notes and ideas you can use for future sessions

Before your online class:

- Tell co-workers you will be in class (send e-mail)
- Post a sign indicating when you will be free again (when class is over)
- Use a headset instead of your computer speakers to minimize disruption of others
- Ignore people who try to get your attention
- Turn off the ringers / alerts on telephone, pager, and cell phone
- Turn off e-mail and instant message alerts
- Remove other distractions lying on your desktop
- Keep a glass of water at your desk

Teleconferencing ground rules:

- Use the mute button or press *6
- Do not place call on hold
• Use the "Raise hand" icon in the Attendee List: My Status to indicate you want to ask a question
• Identify yourself before speaking, when not called on
• Charge the batteries for your cordless handset
• If possible use a land line instead of your cell phone

Minimum Hardware Requirements

• PC with 1.4 GHz processor or higher (Windows) or 1.83 GHz process or higher (Mac OS). Minimum processor required for screen sharing. You may be asked to share your screen during hands-on exercise portions of the class.
• 17 inch or larger monitor is recommended, set at 1024 X 768. Larger monitor and 1024 X 768 setting will make presentation and system screens easier to read.
• Phone with Headset/Microphone or Speakerphone feature – to maximize student listening and comfort during presentation and demonstration portions of the course.

Software Requirement

A complete list of supported Operating Systems, browsers and additional requirements for Adobe Acrobat Connect™ can be found at: www.adobe.com/products/acrobatconnectpro/systemreqs

Sample Email to Notify Others You Are in a Virtual Class

This is a sample of an email you can send to your colleagues and manager when you are taking an online course.

Dear colleagues,

Today I will be participating in an online class from my desk. I will be online from approximately 9:30 a.m. to 5:30 a.m. EST. I would appreciate it if you would not disturb me during this time. If you have an immediate question, please contact Joe Smith at extension 123. If it can wait until after 11:00 a.m., please send me an email and I will follow up with you before the end of the business day. I appreciate your consideration.

Best regards,

Getting the Most Out of Your Session

Session Guidelines

• Turn off email, phones, instant messaging tools, and clear other distractions away from your training area.
• Participate and prepare to be called on by name.
• Use the “Raise Hand” icon if you have an immediate question or comment.
• Be patient waiting for a response to your chat messages.
• If you leave the program, please use the “Step Away” status icon in the Attendee List pod to let your instructor know when you leave and remember to clear it when you return.
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TARGET AUDIENCE
This course is intended for the following audiences:

- Database Administrator
- System Administrator
Lesson 1: Explaining SAP ASE

Lesson Objectives
After completing this lesson, you will be able to:

• List the main features and benefits of SAP ASE

Lesson 2: Describing the Database Architecture

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the database architecture

Lesson 3: Using Query Editors

Lesson Objectives
After completing this lesson, you will be able to:

• Start query editors
Lesson 1: Installing Servers
Lesson Objectives
After completing this lesson, you will be able to:

- Describe the installation process
- Prepare the installation
- Install SAP ASE

Lesson 2: Identifying Installation Parameters
Lesson Objectives
After completing this lesson, you will be able to:

- Identify installation location
- Review the content of a server startup file

Lesson 3: Starting and Stopping SAP ASE
Lesson Objectives
After completing this lesson, you will be able to:

- Check the status of SAP ASE
- Start and stop the server

Lesson 4: Connecting Clients to the Server
Lesson Objectives
After completing this lesson, you will be able to:

- Describe the content of connectivity files
- Manage connectivity files
UNIT 3
Database Server Configuration

Lesson 1: Explaining the Server Configuration File

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the role of the configuration file
- Re-create the configuration file

Lesson 2: Modifying the Server Configuration File

Lesson Objectives
After completing this lesson, you will be able to:

- Create a customized configuration file

Lesson 3: Explaining Memory Mechanisms

Lesson Objectives
After completing this lesson, you will be able to:

- Explain memory mechanisms
- List the parameters that impact memory consumption

Lesson 4: Configuring Memory

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the memory configuration process

Lesson 5: Configuring the Size of Caches

Lesson Objectives
After completing this lesson, you will be able to:

- Configure the caches

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Lesson 1: Creating Devices

Lesson Objectives
After completing this lesson, you will be able to:

- Describe database devices
- Create database devices

Lesson 2: Managing Devices

Lesson Objectives
After completing this lesson, you will be able to:

- Define default devices
- Remove devices
- Expand existing devices

Lesson 3: Mirroring Devices

Lesson Objectives
After completing this lesson, you will be able to:

- Configure device mirroring
- Move a device using mirroring

Lesson 4: Creating Databases

Lesson Objectives
After completing this lesson, you will be able to:

- Plan the creation of databases
- Create a database

Lesson 5: Managing Databases

Lesson Objectives
After completing this lesson, you will be able to:

- Configure database options
- Manage database space allocation

**Lesson 6: Managing Disk Resources**

**Lesson Objectives**

After completing this lesson, you will be able to:

- Allocate resources to databases
- Monitor free space
- Start automatic expansion

**Lesson 7: Managing Temporary Databases**

**Lesson Objectives**

After completing this lesson, you will be able to:

- Create a user-defined temporary database
- Assign a login to a temporary database
Lesson 1: Managing Roles
Lesson Objectives
After completing this lesson, you will be able to:

- Explain data access
- Assign system roles

Lesson 2: Creating Logins
Lesson Objectives
After completing this lesson, you will be able to:

- Explain login properties
- Create logins and login profiles

Lesson 3: Managing Logins
Lesson Objectives
After completing this lesson, you will be able to:

- Modify logins

Lesson 4: Managing Database Users
Lesson Objectives
After completing this lesson, you will be able to:

- Explain database ownership and related options
- Add users to a database

Lesson 5: Managing Creation Permissions
Lesson Objectives
After completing this lesson, you will be able to:

- Assign permissions for object creation
Lesson 6: Managing Object Permissions

Lesson Objectives
After completing this lesson, you will be able to:

- Explain object ownership
- Modify object ownership

Lesson 7: Creating Groups

Lesson Objectives
After completing this lesson, you will be able to:

- Create groups

Lesson 8: Creating Roles

Lesson Objectives
After completing this lesson, you will be able to:

- Create custom roles
Lesson 1: Using SAP ASE Extraction Utilities

Lesson Objectives
After completing this lesson, you will be able to:

- Use utilities related to object definitions

Lesson 2: Using the Bulk Copy Utility

Lesson Objectives
After completing this lesson, you will be able to:

- Explain bulk copy execution
- Compare fast and slow bulk copy

Lesson 3: Explaining Automatic Recovery

Lesson Objectives
After completing this lesson, you will be able to:

- Explain transaction recording mechanisms
- Explain transaction recovery mechanisms

Lesson 4: Ensuring Database Consistency

Lesson Objectives
After completing this lesson, you will be able to:

- Describe available database consistency checkers (dbcc)
- Check a database for inconsistency

Lesson 5: Setting Up the High Speed Consistency Checker

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the configuration of the checkstorage Consistency Checker
- Execute the checkstorage dbcc
Lesson 1: Planning for Backups

Lesson Objectives
After completing this lesson, you will be able to:

● Explain how backups are organized
● List dump possibilities
● Create a backup strategy

Lesson 2: Executing Database Backups

Lesson Objectives
After completing this lesson, you will be able to:

● Describe the configuration of a backup server
● Create database backups

Lesson 3: Restoring Database Backups

Lesson Objectives
After completing this lesson, you will be able to:

● Load a database backup

Lesson 4: Performing Transaction Log Backups

Lesson Objectives
After completing this lesson, you will be able to:

● Execute a transaction dump and load
● Analyze the effects of dump compression

Lesson 5: Using Advanced Backup Techniques

Lesson Objectives
After completing this lesson, you will be able to:
- Configure a last-chance threshold
- Recover the transaction log
- Rebuild a master database from backup
Lesson 1: Using SAP Control Center

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the components of the SAP Control Center
- Install SAP Control Center
- Use SAP Control Center

Lesson 2: Monitoring SAP ASE

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the main monitoring activities
- Use monitoring and data analysis tables