

Oracle Utilities: NMS v2.5 Fundamentals Ed 1 LVC

Oracle Utilities

DURATION

5 Days

MODULES

22 Lectures

COURSE CODE

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Course Overview

This course provides a comprehensive introduction to Oracle Utilities: NMS Fundamentals. Learn the essential concepts, features, and best practices needed to work effectively with Oracle Utilities solutions.

What You Will Learn

Introduction

- Agenda
- Network Management System Overview Agenda
- Learning Objectives
- Introduction

Web Workspace

- Objectives
- Web Workspace Overview
- Launching Web Workspace
- Web Workspace
- Web Workspace Window Features
- Authority Tool and Control Zones
- Using the Search Tool to Searching for a Zone
- Subscribing to an Authority Zone
- Unsubscribing from an Authority Zone
- Working with Tables: Selecting Rows and Columns
- Working with Tables: Moving and Locking Columns
- Working With Tables: Sorting and Filtering Data Overview
- Filtering Data
- Creating Filters
- Conditional Formatting Table Data
- Practice 1: Logging In

- Practice 2: Subscribing to and Unsubscribing from Control Zones
- Practice 3: Exploring Web Workspace Common Features
- Work Agenda
- Using the Work Agenda
- Understanding Work Agenda Events
- Practice 5: Creating a Custom Sort
- Practice 6: Creating a Custom Filter
- Using the Web Workspace Viewer
- Starting the Viewer
- Searching to Load Maps
- Object Focus
- Changing Viewer Coloring Mode
- Practice 7: Exploring the Viewer
- Practice 8: Loading and Unloading Viewer Maps
- Device Details
- Selecting Devices
- Device Symbology
- Condition Symbology
- Condition Symbology Placement
- Conductor Symbology
- Off-Nominal Status Symbology
- Off-Nominal Status Symbology Example
- Changing the Viewer Symbology Display
- Traces
- Practice 9: Changing What You See in the Viewer
- Trace Dialog Box
- Trace Dialog Toolbar
- Advanced Trace Dialog Fields
- Practice 10: Performing a Trace
- The Viewer Lens Tool
- Practice 11: Use the Viewer Lens Tool
- Schematics
- Viewing Schematics
- Practice 12: View Schematics
- Understanding Real-Time and Study Mode
- Switching Modes
- The Control Tool
- Highlighting Events in the Work Agenda from the Control Tool
- Operating Devices (1 of 2)
- Operating Devices (2 of 2)
- Instruct Actions
- Using the Look Ahead Window
- Viewing Device Attribute Information
- Using Notes
- Creating, Editing, and Deleting Notes
- Toggling Call Display

- Tagging Devices
- Placing and Removing Grounds
- Repredicting Upstream/Downstream
- Placing Jumpers
- Jumper Types
- Inserting a Jumper
- Operating a Jumper
- Removing a Jumper
- Practice 13: Operating Devices
- Practice 14: Adding and Removing a Tag
- Practice 15: Working with Notes on a Device
- Practice 16: View Device Attributes
- Practice 17: View Customer Information
- Practice 18: Open a Device to Confirm an Outage
- Using the Commissioning Tool
- Commissioning Tool Actions
- Selecting Pending Devices
- Commissioning and Decommissioning Devices
- Viewing Summaries
- Condition Summary
- SCADA Summary
- Preventing Updates from SCADA
- Manual Entry and Override of SCADA Values (1 of 2)
- Manual Entry and Override of SCADA Values (2 of 2)
- Using the Alarms and Devices Lists
- Abnormal Devices List
- Device Operations List
- System Alarms List
- SCADA Alarms List
- Acknowledging Alarms
- Removing Alarms from the List
- Preventing a Device from Reporting SCADA Alarms
- Practice 19: View the Alarms and Conditions Lists
- Quiz
- Summary

Web Trouble

- Objectives
- Introduction
- Trouble Event-Related Windows Overview
- Creating an Event
- Acknowledging Events in the Work Agenda
- Event Details
- Event Details: Tabs (1 of 2)
- Event Details: Tabs (2 of 2)

- Crew Management Overview
- Summary

Web Switching Management

- Objectives (1 of 2)
- Objectives (2 of 2)
- Overview (1 of 2)
- Overview (2 of 2)
- Switching Sheet Types
- Switching Sheet States
- Operating Modes
- The Web Switching Management Window
- Switching Sheet Window
- Planned Switching
- Creating a Planned Switching Sheet
- Opening an Existing Switching Sheet
- Switching Sheet List Color Coding
- Capabilities of the Switching Request User Type
- Completing the Request Tab
- Taking and Relinquishing Ownership
- Changing the Switching Sheet State
- Adding and Editing Steps
- Switching Sheet Step States
- Adding Recorded Steps to a Switching Sheet (1 of 2)
- Adding Recorded Steps to a Switching Sheet (2 of 2)
- Adding Comment Steps
- Copying and Pasting Steps
- Creating Go-Back Steps
- Working with Blocks
- Adding a New Block Header
- Parallel Step Execution (1 of 2)
- Parallel Step Execution (2 of 2)
- Grouping and Ungrouping Steps (1 of 2)
- Grouping and Ungrouping Steps (2 of 2)
- Grouping Steps
- Ungrouping Steps
- Adding Steps to an Existing Group
- Grouping Aggregate Steps
- Editing Existing Steps
- Finding and Replacing a Device in the Steps
- Focusing on a Device in a Step
- Reviewing a Switching Sheet in Study Mode
- Replaying Steps
- Implementing a Planned Switching Sheet
- Scheduling Planned Master Events

- Scheduling a Planned Master Event
- Updating the ERT in Event Details
- Issuing a Switching Sheet
- Pre-Assigning Steps to Crews (Optional)
- Changing the Sheet State to Issued
- Printing a Switching Sheet
- Printing the Switching Sheet
- Instructing and Completing Switching Sheet Steps
- Moving a Crew
- Working with Switching Sheet Versions
- Step Versioning (1 of 2)
- Step Versioning (2 of 2)
- Viewing Impacted Customers
- Using the Impacted Customers Tab
- Moving Customers
- Checking for Overlaps
- Overlaps Tab - Color Coding
- Updating the Overlaps List
- Viewing an Overlapping Switching Sheet
- Adding External Documents to a Switching Sheet
- Adding an External Document
- Removing an External Document
- Opening and Editing an External Document
- Saving and Loading View Areas
- Saving a Viewing Area
- Loading a Saved Viewing Area
- Reloading all Auto-Load Viewing Areas
- Deleting a Saved Viewing Area
- Viewing the Audit Log
- Emailing Switching Sheet Data
- Automatic Emails
- Switching Sheet Templates
- Creating a Switching Sheet Template
- Creating a Switching Sheet from a Template
- Emergency Switching
- Creating an Emergency Switching Sheet
- Recording Emergency Operations
- Hard Associations
- Working with Safety Documents
- Safety Document Types (1 of 2)
- Safety Document Types (2 of 2)
- Adding Safety State Transition Steps
- Editing the Device List
- Removing Devices
- Executing Safety State Transition Steps (1 of 2)
- Executing Safety State Transition Steps (2 of 2)

- Issuing Safety Documents
- Issuing Safety Documents Manually
- Issuing Safety Documents While Executing Steps
- Releasing Safety Documents
- Releasing Safety Documents Manually
- Releasing Safety Documents While Executing Steps
- Opening an Existing Safety Document (1 of 2)
- Opening an Existing Safety Document (2 of 2)
- Completing Safety Documents
- Aborting a Safety Document
- Outage Correction
- Re-Recording the Outage Restoration Sequence in Study Mode
- Using the Miscellaneous Log
- Displaying the Miscellaneous Log
- Filtering the Log
- Viewing Global Overlaps
- Quiz
- Summary (1 of 2)
- Summary (2 of 2)

Operations Mobile Application

- Objectives
- Overview
- Overview of the Operations Mobile Application
- OMA Settings
- Logging In and Registering
- Understanding the User Interface Components
- Main App Panel
- Map Panel
- Map Panel Interaction Icons
- Map Selection List Panel
- Crew Management: the Crew Collapsible Panel
- Tasks Panel
- Task Information and Actions (1 of 2)
- Task Information and Actions (2 of 2)
- Switching
- Damage Assessments and Damage Patrolling

Training Simulator

- Objectives
- Overview
- Training Simulator - Overview
- Trainer User Type
- Training Simulator Process Flow
- Trainer User Type

- Practice 6-1: Logging In and Obtaining Control Zone Authority
- Managing Scenarios
- Recording Scenario
- Practice 6-2: Recording a Training Scenario
- Performing a Training Scenario
- Playing a Storm Dataset During Training
- NMS Simulator – Trainee Environment
- Reviewing Trainee Actions

Introduction

- Objectives
- Introduction
- OMS Overview
- Course Overview
- Course Components
- Course Conventions (1 of 2)
- Course Conventions (2 of 2)
- Enjoy The Course!

Understanding and Viewing Outage Events

- Objectives
- Understanding Event Sources
- Outage Events in the Work Agenda
- Working an Outage Event
- Introduction to Crew Management
- Crew Actions
- Crew Views
- Activating a Crew
- Setting a Crew's Status to On Shift or Off Shift
- Making a Crew Inactive
- Changing Crew Availability
- Creating Events
- Creating Events with Web Call Entry and the Web Workspace Create Event Tool
- Creating an Event with the Create Event Tool
- Understanding Fuzzy Calls
- Working with Crews
- Responding to an Event
- Placing a Crew En Route
- Placing a Crew Onsite
- Moving a Crew
- Moving a Crew with Drag and Drop
- Finding the Event to Which a Crew is En Route
- Understanding Crew Makeup
- Creating a Crew
- Creating a Crew: Adding Personnel

- Creating a Crew: Adding Vehicles and Equipment
- Editing a Crew
- Removing Personnel and Equipment from a Crew
- Crew Info Window
- Unassigning a Crew
- Releasing a Crew from an Event
- Suspending a Crew
- Deleting a Crew
- Summary

Managing Customer Calls & Web Call Entry

- Objectives
- Web Call Entry Window
- Web Call Entry: Searching for a Customer
- Web Call Entry: Searching for a Customer by Using the Call ID
- Web Call Entry: Entering a Call
- Practice #1: Searching for Customers
- Web Call Entry: Completing the Request Section
- Web Call Entry: Outages Summary
- Web Call Entry: Customer Call History
- Web Call Entry: Viewing Event History
- Practice #2: Entering Customer Calls
- Practice #3: Submitting a Second Customer Call
- Practice #4: View Customer Call and Event History
- Practice #5: Create an Appointment
- Summary

Managing Events

- Objectives
- Introduction
- Event Details
- Event Details: Tabs
- Job Actions Tab
- Completion Actions Tab
- Equipment Failure Tab
- Trouble Info Tab
- Trouble Info: Understanding the Callers View
- Trouble Info: Understanding the Customers View
- Trouble Info: Understanding the AMI Customers View
- Trouble Info: Understanding Supply Points View
- Using the Damage Assessments Tab
- Using the Event Log Tab
- Understanding the Steps Tab
- Understanding the Attachments Tab
- Event Grouping

- Manual Grouping Rules
- Grouping Rules
- Graphical Grouping
- Work Agenda: Condensed View for Related Events
- Completing an Event
- Associating and Unassociating Calls with Devices
- Associating a Fuzzy Call with a Device
- Unassociating/Reassociating a Call from/to a Device
- Understanding Damage Assessments
- Damage Assessment Window
- Damage Assessments States and Symbology
- Creating AMI Requests for Service Outages
- Creating AMI Requests for Device Outages
- Creating an AMI Request Without an Outage
- AMI Requests - Other Functions
- Updating the Estimated Restoration Time (ERT) for Selected Events
- Set ERT for Selected Events
- Clearing the ERT
- Setting the System-Wide ERT
- Clearing the System-Wide ERT
- Summary

Web Callbacks

- Objectives
- Web Callbacks Overview
- Web Callbacks Window
- Callbacks Table
- Callbacks Table Column Features
- Callbacks Summary Panel
- Callbacks Buttons
- Status Bar
- Assigning Callbacks
- Assign Callbacks Window
- Assigning Callbacks to Users
- Assigning Numbers of Callbacks
- Practice #1: Assigning Numbers of Callbacks
- Assigning Percentages of Callbacks
- Practice #2: Assigning Numbers of Callbacks
- Assigning All Remaining Callbacks
- Practice #3: Assigning All Remaining Callbacks
- Reassigning All Remaining Callbacks
- Viewing Callback Assignments
- Canceling versus Unassigning Callbacks
- Canceling Your Callback Assignments
- Unassigning Callbacks

- Unassigning Callbacks for a Specific Event
- Unassigning All of Your Callbacks
- Practice #4: Working with Your Callback Assignments
- Practice #5: Canceling Your Callback Assignments
- Performing Callbacks
- Perform Callback List Window
- Performing Assigned Callbacks for an Event
- Performing Unassigned Callbacks
- Perform Next Callback Window
- Performing the Next Unassigned Callback for an Event
- Practice #6: Performing Callbacks
- Quiz
- Summary

Service Alert

- Objectives
- Service Alert Overview
- Service Alert Administration Window
- Using the Contact Manager Tab
- Practice #1: Using the Contact Manager to Create Contacts
- Practice #2: Edit a Contact
- Using the Group Manager Tab
- Practice #3: Creating Groups
- Using the Parameter Manager Tab
- About Parameter Values
- Practice #4: Configuring Alert Parameters
- Using the Utility Customers Tab
- Practice #5: Using the Utility Customers Tab to Designate Alerts
- Using the Attributes Manager Tab
- Service Alert Notification Examples
- Unplanned Outage Affecting Critical Customers
- Unplanned Outage Affecting a Specific Customer
- Planned Outage Affecting Many Customers
- Storm Ended
- Frequency of Device Operations
- Quiz
- Summary

Storm Management

- Objectives (1 of 2)
- Objectives (2 of 2)
- Storm Management Overview
- Analysis Rule Sets - Web Workspace
- Practice 1: Change Rule Sets
- Starting Storm Management

- Practice 2: Log In to Storm Management
- Storm Management Window
- Status Bar
- Zone Selection Panel
- Selecting the Control Zone to View
- Summary Information Panel
- Storm Report Panel
- Storm Management Panels
- Using Storm Management Modes
- Non-Storm Mode
- Using ERT Overrides
- ERT Projections
- Turning Off Accessibility of the Estimates
- Overriding the Estimates
- Changing Publish/Non-Publish or Default ERT Information
- Turning Accessibility of Projections Back On/Removing Overrides
- Printing ERT Overrides
- Manual Overrides
- Overriding Historical Averages
- Practice 3: Enter Outage Calls
- Practice 4: Adjust ERT Parameters
- Storm Mode
- Entering Storm Mode
- Defining the Storm
- Placing a Control Zone in Storm Mode and Defining the Storm
- Joining Existing Storms
- Joining a Control Zone to an Existing Storm
- Storm Information Panel
- Changing Storm Levels
- Changing Storm Types
- Practice 5: Create a Storm Event
- Forecasting Outages
- Forecasting Outages by Percentage
- Forecasting Outages by Value
- Practice 6: Forecast the Outage
- Forecast Profiles
- Forecast Profiles Window
- Adding a Profile
- Editing a Profile
- Removing a Profile
- Applying a Profile
- Printing Forecast Profiles
- Practice 7: Create a Storm Profile
- Crew Information Panel
- Sorting the Crew Information Table
- Applying Changes

- Applying Changes
- Importing Crews
- Import Crews Window
- How to Import Crews
- Example of Importing Crews
- Practice 8: Import Crews
- Adding Crew Groups
- Add Crew Group Dialog
- Adding Crews
- Adding Crew Groups Using the Add Crew Group Dialog
- Adding Crews with the Right-Click Menu
- Editing Crew Groups
- Editing Crew Groups with the Edit Crew Group Dialog
- Editing Crew Groups in the Crew Information Table
- Deleting Crew Groups
- Moving Crew Groups
- Move Crew Group Dialog
- Moving Crews to Another Control Zone
- Moving Entire Crew Groups in the Table
- Moving Partial Crew Groups with the Right-Click Menu
- Practice 9: Add, Edit, and Delete Crews
- Practice 10: Stop Publishing the ERT Values
- Study Mode (1 of 3)
- Study Mode (2 of 3)
- Study Mode (3 of 3)
- Practice 11: Import Crews in Study Mode
- Calculating Crew Resources
- Calculate Crews Dialog
- Calculating Crews Needed to Assess and Restore Outages by a Given Time
- Printing Calculate Crews Results
- Practice 12: Calculate Crews - What-If Analysis
- Importing Crews and Parameters
- Importing Real-Time Crews and Parameters into the Study Session
- Importing Real-Time Session Information into the Study Session
- Practice 13: Add Crews
- Resetting the Current Study Session to Match the Real-Time Session
- Exporting Crews and Parameters
- Calculating Estimates in Study Mode
- Exiting Study Mode
- Practice 14: Export Study Session to Real-Time
- Practice 15: Publish Global ERT Value
- Exiting Storm Mode
- Practice 16: Toggle out of Storm Mode
- Quiz
- Summary (1 of 2)
- Summary (2 of 2)

Introduction

- Objectives
- Introduction
- DMS Operations Objectives What is the DMS Tasked with Doing?
- DMS Functional Components
- DMS Overview
- DMS Key Modules: Power Flow
- DMS Key Modules: Suggested Switching
- DMS Key Modules: Feeder Load Management
- DMS Key Modules: Fault Location, Isolation, and Service Restoration
- DMS Key Modules: Fault Location Analysis
- DMS Key Modules: Real-time Network Optimization
- Course Components (1 of 2)
- Course Components (2 of 2)
- Course Conventions

Power Flow and Feeder Load Management

- Objectives
- Power Flow
- Viewing Power Flow Results in Real Time (1 of 2)
- Viewing Power Flow Results in Real Time (2 of 2)
- Power Flow Information Visualization
- Practice 1: Viewing Power Flow Information
- Real-Time Power Flow Updates
- Study Mode Load Scenario for Power Flow
- Practice 2: Viewing Power Flow Results
- Using Power Flow with Look Ahead (1 of 2)
- Using Power Flow with Look Ahead (2 of 2)
- Practice 3: Using the Look Ahead to Evaluate a Load Transfer
- Feeder Load Management Overview (1 of 2)
- Feeder Load Management Overview (2 of 2)
- Feeder Load Management Overview
- Feeder Load Management Updates
- Accessing Feeder Load Management Tools
- Feeder Load Summary Window
- Feeder Load Summary Table
- Feeder Load Management Window
- Accessing the Feeder Load Management Window (1 of 2)
- Accessing the Feeder Load Management Window (2 of 2)
- Accessing the Feeder Load Management Window
- Using the Feeder Load Management Window
- Using Real-Time and Study Mode (1 of 2)
- Using Real-Time and Study Mode (2 of 2)
- Graphical View (1 of 3)

- Graphical View (2 of 3)
- Graphical View (3 of 3)
- Feeder Load Overview View
- Feeder Load Overview View: Viewing the Limiting Device by Phase
- Feeder Load Overview View: Starting a Study Session for Selected Row
- Profile
- Feeder Load Management Details (1 of 2)
- Feeder Load Management Details (2 of 2)
- Viewing and Modifying Study Session Parameters
- Practice 4: Using FLM to Evaluate Need for Planned Switching
- Summary

Suggested Switching

- Objectives
- Suggested Switching Overview (1 of 3)
- Suggested Switching Overview(2 of 3)
- Suggested Switching Overview(3 of 3)
- Understanding Suggested Switching Scenarios
- Suggested Switching Scenarios
- Suggested Switching Scenarios - Substations
- Using Suggested Switching (1 of 2)
- Using Suggested Switching (2 of 2)
- Running the Suggested Switching Tool (1 of 2)
- Running the Suggested Switching Tool (2 of 2)
- Plan Type Page (1 of 2)
- Plan Type Page (2 of 2)
- Unload Feeder Page: Displayed for Feeder Unloading Scenario Only
- Load Scenario Page
- Load Scenario Page: Power Flow Study Mode Load Scenario Window (1 of 2)
- Load Scenario Page: Power Flow Study Mode Load Scenario Window (2 of 2)
- Constraints Page (1 of 2)
- Constraints Page (2 of 2)
- Feeders Ties Page
- Plans Page
- Plan Details Page
- Summary Page
- Practice #1: Unloading a Feeder
- Summary

Optimization

- Objectives
- Optimization Objectives
- Optimization Overview
- Optimization Study Mode Overview
- Starting Volt/VAr Optimization

- Volt/VAr Optimization Tool Overview
- Options Page
- Load Scenario Page
- Result Plan Page
- Plan Details Page
- Summary Page
- Real-Time Optimization Overview
- Optimization Closed Loop Mode
- Practice #1: Running a Volt/VAr Optimization
- Summary

Fault Location, Isolation, and Service Restoration

- Objectives
- FLISR Overview
- FLISR Scenarios
- Setting the FLISR Mode
- Controlling FLISR Devices from the Control Tool
- Using FLISR with Work Agenda
- DMS Status Field
- Using the FLISR Report Tool
- Practice #1: FLISR Operation in Manual Mode
- Executing FLISR in Automatic Mode
- FLISR Automatic Mode with Overloads
- Generating a Switch Plan for Overload Case
- Generating a Switch Plan in Manual Mode
- FLISR with Web Switching
- Practice #2: FLISR Operation in Automatic Mode
- Practice #3: FLISR Generate Go-Backs to Return to Nominal
- Viewing FLISR Disabled Devices Overview (1 of 2)
- Viewing FLISR Disabled Devices Overview (2 of 2)
- Viewing FLISR Disabled Devices
- Viewing FLISR Conditions
- Using the FLISR Flow Summary Window
- Summary

Fault Location Analysis

- Objectives
- Fault Location Analysis Overview
- Fault Location Process Overview
- Using the Fault Location Analysis Tool
- Fault Location Analysis Window: Context Menu Options
- Practice #1: Display Possible Fault Locations
- Confirming Fault Locations
- Marking Fault Locations as Incorrect
- Correcting a Fault Location

- Isolate and Restore Option for a Confirmed Fault
- Viewing Fault Events in the Work Agenda
- Viewing Fault Outages in the Viewer
- Practice #2: Confirm Fault Location
- Summary

Load Shed and Restoration

- Agenda
- Objectives
- Load Shed and Restoration Overview
- Starting the Load Shed and Restoration Tool
- Understanding the Load Shed and Restoration Tool
- Creating A Load Shed Plan:
- Automatic Execution of SCADA Load Shed Steps
- Summary

Dynamic Protection Schemes

- Agenda
- Objectives
- Dynamic Protection Schemes Overview
- Setting Protection Scheme Mode
- Viewing and Updating the Protection Scheme Status for a Device
- Viewing a Device's Protection Scheme Value
- Setting a Device's Protection Scheme Value
- Verifying a Device's Protection Scheme
- Protection Scheme Settings Related to FLISR and Suggested Switching
- Practice #1: Setting the Protection Scheme Mode
- Practice #2: Verifying Protection Scheme Setting on a Device
- Practice #3: Creating a Protection Scheme Event
- Summary

Active Network Management Schemes

- Agenda
- Objectives
- Active Network Management Schemes Overview
- Understanding Active Network Management Schemes
- Practice #1: Create ANMS Template Steps
- Practice #2: Test ANMS Scheme
- Summary