

# **AVEVA E3D Administration Essentials**

## **Target Audience**

- AVEVA E3D Administrators
- E3D Project Setup Engineers
- CAD/BIM Administrators
- Engineering Systems Administrators
- Project IT Support Personnel

## **Course Objectives**

- Configure and manage AVEVA E3D projects and databases.
- Administer users, teams, and access control mechanisms.
- Perform database maintenance, backup, merging, and recovery activities.
- Manage project security, standards, and administration best practices.
- Implement project-wide customization using Lexicon and UDA management.

## **Course Outcomes**

Upon completion of this course, participants will be able to:

- Create and manage E3D projects and databases.
- Configure users, teams, and access rights.
- Perform database administration and maintenance activities.
- Implement project security and authentication settings.
- Customize E3D environments using UDAs and project administration tools.

## **Course Outline**

Number of Chapters: 4 Modules

Duration: 16 Hours

## **Table of Contents**

### **Module 1: Project Setup and User Administration**

#### **1.1 Introduction to AVEVA E3D Administration**

- E3D Administration Overview
- Administrative Responsibilities
- Project Structure and Architecture

## **1.2 Project Creation and Configuration**

- Creating New Projects
- Project Directory Structure
- Project Settings and Environment Variables

## **1.3 Team and User Management**

- Creating Teams
- Creating Users
- Assigning Users to Teams
- User Roles and Responsibilities

## **1.4 Security and Authentication**

- NT Authentication Setup
- Login Management
- User Validation and Security Best Practices

## **Hands-On Exercise**

- Create a New Project
- Configure Teams and Users
- Enable NT Authentication

## **Module 2: Database Administration**

### **2.1 Database Fundamentals**

- E3D Database Architecture
- Database Types and Functions

### **2.2 Database Creation**

- Creating Databases
- Creating Multiple Databases
- Database Ownership and Allocation

### **2.3 Database Management**

- Database Range (DB Range)
- Date and Stamp Management

- Extract Controls Configuration

## **2.4 Access and Security Controls**

- Access Control Rights (ACR)
- Database Permissions
- User Access Restrictions

### **Hands-On Exercise**

- Create Multiple Databases
- Configure DB Range
- Set ACR Permissions

## **Module 3: Database Maintenance and Recovery**

### **3.1 Database Maintenance**

- Database Reconfiguration
- Database Optimization Concepts
- Project Locking Procedures

### **3.2 Database Recovery Operations**

- Database Merging
- Database Backtracking
- Managing Recovery Scenarios

### **3.3 Expunge Operations**

- Claim Expunges
- Project Expunges
- Best Practices for Cleanup Activities

### **3.4 Database Monitoring**

- DICE Report Generation
- Interpreting DICE Reports
- Identifying Database Issues

### **Hands-On Exercise**

- Perform Database Merge

- Execute Backtracking
- Generate and Analyze DICE Reports

## **Module 4: Project Customization and Advanced Administration**

### **4.1 Lexicon Administration**

- Introduction to Lexicon
- Lexicon Hierarchy and Management

### **4.2 User Defined Attributes (UDAs)**

- Creating UDAs in Lexicon
- Assigning UDAs to Elements
- Managing UDA Standards

### **4.3 Project Standards Management**

- Font Family Configuration
- Font Style Management
- Administrative Standards Setup

### **4.4 Advanced Administration Best Practices**

- Project Governance
- Security Audits
- Administration Troubleshooting
- Project Maintenance Checklist

### **Hands-On Exercise**

- Create and Configure UDAs
- Modify Font Standards
- Implement Project Administration Standards