

# AVEVA Point Cloud Manager Training

*COURSE CONTENT*

## GET IN TOUCH



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## About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

## About Course

AVEVA Point Cloud Manager Training by Multisoft Systems is designed to help professionals efficiently manage, visualize, and utilize point cloud data for engineering, plant design, and infrastructure projects. This comprehensive program focuses on practical learning to ensure participants gain hands-on experience in handling laser scan data and integrating it with design workflows. The training covers key concepts such as point cloud data import, registration, optimization, navigation, and collaboration.

## Module 1: Introduction to Point Cloud Technology

- ✓ Overview of 3D laser scanning and point cloud fundamentals
- ✓ Role of point cloud data in plant design and engineering projects
- ✓ Introduction to AVEVA Point Cloud Manager
- ✓ Understanding supported file formats and data structures
- ✓ Industry applications and use cases

## Module 2: Installation & Interface Overview

- ✓ Software installation and system requirements
- ✓ User interface and workspace navigation
- ✓ Project setup and configuration
- ✓ Data organization and folder management

## Module 3: Importing & Managing Point Cloud Data

- ✓ Importing laser scan data from various sources
- ✓ Data registration and alignment concepts
- ✓ Managing large datasets efficiently
- ✓ Data compression and optimization techniques
- ✓ Working with multiple scan projects

## Module 4: Visualization & Navigation Techniques

- ✓ 3D visualization tools and controls
- ✓ View manipulation, clipping, and sectioning
- ✓ Color mapping and display settings
- ✓ Measuring distances and validating site conditions
- ✓ Creating snapshots and reports

## Module 5: Data Editing & Optimization

- ✓ Cleaning and refining point cloud datasets

- ✓ Noise removal techniques
- ✓ Performance optimization strategies
- ✓ Managing project revisions and updates

## **Module 6: Integration with Engineering Workflows**

- ✓ Integration with plant design and 3D modeling tools
- ✓ Supporting clash detection and validation
- ✓ Using scan data for as-built verification
- ✓ Collaboration across multidisciplinary teams

## **Module 7: Digital Twin & Brownfield Applications**

- ✓ Role of point cloud data in digital twin initiatives
- ✓ Brownfield project modernization workflows
- ✓ Asset lifecycle management support
- ✓ Best practices for real-world project implementation

## **Module 8: Project-Based Practical Sessions**

- ✓ Hands-on exercises with live datasets
- ✓ Real-world case studies
- ✓ End-to-end project workflow demonstration
- ✓ Troubleshooting common issues
- ✓ Final assessment and knowledge evaluation