
COURSE OUTLINE

Mastering Point Clouds with FME

Prerequisites

We recommend that you have done the FME Desktop Basic course and have been working with FME for a while. You can create your own workspaces and know all the basic functionality. Basic knowledge about point clouds and the different point cloud formats is a plus but not required

Goal of the course

In this course you will discover more about the world of Point Clouds together with FME. You will learn how to easier work with point cloud and look more into the specific Point Clouds transformers that FME offer.

Required Materials

To participate in this course, you will require a laptop that can use remote desktop to connect to a virtual machine.

Sweco will provide virtual machines with all software, licenses and data installed.

Course Objectives

Reading Point Clouds

- Different Point Cloud formats
.LAS and .LAZ files
- Reading Point Clouds in Tiles.
- Viewing and Inspecting Point Clouds

Thinning, Filtering and Combining Point Clouds

- PointCloudThinning
- PointCloudCombiner
- PointCloudSplitter
- PointCloudCoercer
- PointCloudFilter
- PointCloudSimplifier

Point Cloud Computations

- PointCloudsExpressionEvaluator
- PointCloudComponent*
- Classify Point Clouds

Transforming Point Clouds

- Raster to PointCloud
- Creating Point Clouds

- Creating a DEM
- Creating Contours
- Creating 3D models

Writing Point Clouds

- Formats
- Applications