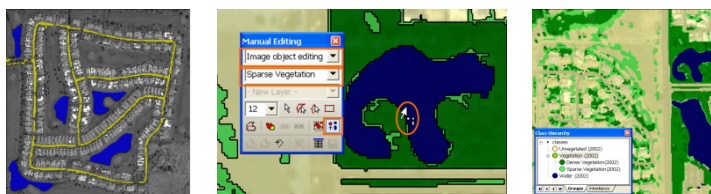


# eCognition Developer Training: Tools and Functionality

## Overview

This three day course is the ideal start to learn all concepts of OBIA (Object Based Image Analysis) and the fundamental tools and functions to become a Rule Set developer.

The participant is guided through hands-on sessions alternated with exercises to recap the lessons learned. Goal: after this training the trainee has the capability to set up a image analysis workflows, the participant understands when to use which tool to come to the desired result on own data and topics.



## Content

**Tools and Functionality I** explains all fundamental functionalities and methods from loading data to exporting the results. Different sensor types are used for the hands-on exercises.

- Introduction to OBIA (Object Based Image Analysis)
- Loading and viewing data
- Introduction to “Processes”
- Segmentation: creating image objects
- Image objects - the information carriers
- Basic classification; classify using context information: Feature ‘Relative border to class’
- Sample based classification with Nearest Neighbor classifier
- Merge objects; export results
- Batch-processing with eCognition Server

**Tools and Functionality II** explains tools and algorithms for more complex classification methods and refinement strategies. A land cover classification example is used analyzing a Quickbird subset.

- Using customized features for classification
- Classification using fuzzy membership functions – enhance transferability
- Semantic relationship and inheritance
- Refinement of classification using algorithms “find enclosed by” and “remove objects”
- Manual image object editing

**Tools and Functionality III** teaches how to use thematic GIS information, as well as the usage of multiple object levels. Tips and tricks about rule set re-usage and documentation and about reviewing results are also part of this module.

- Reusing and documenting Rule Sets
- Manual editing of thematic shape files
- Working with thematic shape files
- Creating multiple levels with ‘multiresolution segmentation’
- Classifying within several levels
- Review results with ‘Image Object Table’

## Format/Price:

Three day instructor-led training. Available as [open training](#) or [in-company training](#) (up to 10 Participants); Price upon request ([eCognition\\_Training@trimble.com](mailto:eCognition_Training@trimble.com))

## Prerequisites and recommendations

Remote Sensing and GIS knowledge; After the course, it is recommended to attend the other instructor-led trainings of the category “Workflows and general Analysis Strategies” and “Domain Focused Training”.