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The contents of this manual are subject to change without notice. Although every effort has been made to ensure the accuracy of this manual, we cannot guarantee the accuracy of its content. If you discover items which are incorrect or unclear, please contact us using this form: http://www.ecognition.com/content/training-inquiries

Find more information about the product or other tutorials at
http://www.ecognition.com/
http://www.ecognition.com/community

Release Notice
Release date: August 2013
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Training Format

Instructor-led classroom training

All instructor-led classes are held in English, if not noticed different. For all classroom courses the relevant software is provided. For standard classroom training the participants receive the digital training manuals, data and exercises.

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Company</td>
<td>In-company training is a cost effective option where up to ten staff have the</td>
<td>Delivering in-company training programs at your premises will ensure minimum interruption to your business day, save you money on travel and hotel accomodation and provide the training to your staff in familiar surroundings which is conducive to retention of knowledge.</td>
</tr>
<tr>
<td>training</td>
<td>same or similar training need.</td>
<td></td>
</tr>
</tbody>
</table>

Contact

If you are interested in an in-company training, please send us a message at imaging_training@trimble.com

Online training

The online training is mainly self-study training. You can discuss training topics in our eCognition Community platform. There you can get help when having problems with the exercises. All online courses and webinars are held in English.

- Online, 24/7: All courses are available via the Trimble Learning Center: http://www.trimblelms.com/tr_open_main_main.asp
- Community help, 24/7: Browse through training related discussions or start an own threat.

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-study</td>
<td>The online courses are self-study and have theory/introduction parts as well</td>
<td>Fits perfectly in your workday, without being away from your desk. Learn in detail how to use eCognition with being flexible in time. You decide when to work on the exercises, 27/7.</td>
</tr>
<tr>
<td></td>
<td>as videos and detailed, interactive hands-on exercises teaching a particular topic</td>
<td></td>
</tr>
<tr>
<td>Community help</td>
<td>Register at the eCognition Community and post questions about the training content. An experienced eCognition Trainer will provide help by participating in the discussion.</td>
<td>Get in direct contact with an experienced trainer. Learn from discussions started by other training participants. Meet other users and get networked by participating at the discussions.</td>
</tr>
</tbody>
</table>
The training categories

We offer three different training categories:

"Tools and Functionality“ training courses:
For all users starting to learn the software; For update on new functionalities in new versions

"Workflows and General Analysis Strategies” training courses:
For learning efficient Rule Set development teaching analysis focused workflows and strategies
Product: Mainly for eCognition Developer and Server

"Production and Domain focused” training modules
For high level users focusing on either on getting in production mode or about thematic domains like: Change Detection or LiDAR
Instructor-led classroom training

“eCognition Tools and Functionality” training courses

The “Tools and Functionality” courses are available for all eCognition products, eCognition Developer, Server and Architect. To get updated on new software versions the “What’s new?” Training is available.

In the “Tools and Functionality” courses the main features and functions of the product are explained in hands-on and theoretical sessions. After the training the user has sound qualification to utilize the products and is able to set up standard workflows and procedures.

(ECOG-IT1) “eCognition Developer Tools and Functionality”

After this three days training the user has sound qualification to utilize eCognition Developer and is able to set up standard workflows and procedures.

(ECOG-IT2) “What’s New?”

This one day course covers the important new features and function of eCognition.

(ECOG-IT3) ” eCognition Server: Tools and Functionality”

After this two days training can leverage the processing power of the eCognition Server by doing batch-processing and tiling and stitching routines.

(ECOG-IT4) ” eCognition Architect: Tools and Functionality?”

This two days course teaches how to design a User Interface to guide other Users through an image analysis routines in an easy way..

All the courses are available as in-company training.
**Overview**

This three day beginner’s 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 basic image analysis workflow, from loading data to classifying it up to exporting the results.

**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 for up to 10 Participants; necessary software licenses will be provided; Price upon request ([imaging_training@trimble.com](mailto:imaging_training@trimble.com))

**Prerequisites and recommendations**

Prerequisites: Remote Sensing and GIS knowledge; After the course, it is recommended to attend other instructor-led training courses, e.g. “Workflows and Analysis Strategies” or “eCognition Server Tools + Functionalities”
Instructor-led classroom training

(ECOG-IT2) What’s new?

Overview
This one day course provides an update on the concepts, algorithms and data formats new to eCognition 8.0.

For developing Rule Sets, the concept of ‘maps’ and ‘regions’ is explained as well as the pixel based growing and shrinking algorithms to generalize object outlines.

You will also get an introduction on how to build applications with the eCognition Architect, as well as an overview of the new functionalities for manual classification and quality check to complete the entire image analysis workflow.

Content
- Object generalization
- Introduction to ‘maps’: independent object hierarchies in one project
  - True change detection
  - Down-sampling of scenes
- Working with regions of interest
- Native LiDAR support; import of point clouds, conversion
- Building interfaces in eCognition Architect

Format/Price:
One day instructor-led in-company training for up to 10 Participants; necessary software licenses will be provided; Price upon request (imaging_training@trimble.com)

Prerequisites and recommendations
Prerequisites: Remote Sensing and GIS knowledge, attended “eCognition Developer Tools and Functionality” course

Recommendation: Combine the training with the “eCognition Developer Tools and Functionality” Training. Additionally attend other instructor-led training courses, e.g. “Workflows and Analysis Strategies” of “eCognition Server Tools + Functionalities”.

Instructor-led classroom training

(ECOG-IT3) eCognition Server: Tools and Functionality

Overview
This two day training is ideal for those new to eCognition server or those wishing to exploit the full power of this eCognition Suite. All important tools and functions required to process large data volumes in an efficient batch mode are explained, including import and export handling, workspace automation, tiling and stitching of large image data.

Content
- Batch processing of multiple data
- Import and export handling
- Introduction to workspace automation
- Workspace automation: Tiling and stitching of large image data
- Workspace automation: Automatically creating subsets and copies
- Workspace automation: Transferring parameters between files
- Set up of workspace automation and processing on own sample data

Format/Price:
Two day instructor-led in-company training for up to 10 Participants; necessary software licenses will be provided; Price upon request (imaging_training@trimble.com)

Prerequisites and recommendations
Prerequisites: Remote Sensing and GIS knowledge, “eCognition Developer Tools and Functionality” course.
Recommendation: After the course attend other instructor-led trainings of the category “eCognition Rule Set Development” or “eCognition Production”.

9
(ECOG-IT4) eCognition Architect: Tools and Functionality

Overview

This two day course explains how eCognition Architect enables complex image analysis routines to be wrapped into an easy user interface designed to guide semi-automated analysis workflows. Receive an introduction to creating applications using widgets, parameter sets and variables.

Content

- Introduction to creating new applications
- The Action ‘Create Image Objects’
  - Creating the parameter set and variable
  - Creating the first action group; Creating the action definition
  - Adding a widget group to Action definition; Adding widgets to the action
  - Modifying and extending the Rule Set for ‘Create Image Objects’
- The action ‘Classify Vegetation’
- The action ‘Classify Water’
- The action ‘Manual Classification’
- The action ‘Clutter Removal’
- The action ‘Merge Objects’
- The action ‘Export Vector Layer’

Format/Price:

Two days instructor-led in-company training for up to 10 Participants; necessary software licenses will be provided; Price upon request (imaging_training@trimble.com)

Prerequisites and recommendations

Prerequisites: Remote Sensing and GIS knowledge, “eCognition Developer Tools and Functionality” course and work experience with eCognition Developer.

Recommendation: After the course attend other instructor-led trainings of the category “eCognition Rule Set Development” or “eCognition Production”.
"eCognition Workflows and Analysis Strategies” training courses

Covered the basics and now need to take your skills to the next level? We can help you reach the highest levels of efficiency in operational image analysis. The courses and materials found here will help you to develop robust, sophisticated rule sets.

Prerequisite is to attend the “eCognition Developer Tools and Functionalities” and also have worked with the software for some time.

Ideally after a couple of weeks after the “eCognition Developer Tools and Functionality” course the “Workflows and General Analysis” course follows.

This is to ensure that the fundamentals about how to use eCognition Developer are settled and general image analysis functionalities are understood, so that the participants can benefit most from the “Workflows and General Analysis” course.

You can either:

- book the three days standard course with fixed content, see details

- or combine modules individually to a course of two or three days.

(EOCG-IT5) “Workflows and Analysis Strategies” – Standard Course

This three day training provides insight in more complex and advanced analysis strategies.

(EOCG-IT 6/IT7) “Workflows and Analysis Strategies” - Variable course/individual modules

You have the possibility to select from a list of training modules and combine them either to a two or a three days course.
(ECOG-IT5) Workflows and Analysis Strategies – Standard Course

Overview
This three days course is ideal as a follow up to the “eCognition Developer: Tools and Functionalities“ course.

Covered the basics and now need to take your skills to the next level? We can help you reach the next level in operational image analysis. The courses and materials found here will help you to develop robust, sophisticated rule sets.

Ideally, a couple of weeks after the “eCognition Developer Tools and Functionalities“ course the “Workflows and General Analysis” course follows.

This is to ensure that the fundamentals about how to use eCognition Developer are settled and general image analysis functionalities are understood, so that the participants can benefit most from the “Workflows and General Analysis” course.

Content
- Introduction to efficient project management
- Dynamic classification: Seed-grow-approach
- Improve Rule Set transferability I: Using measurement techniques and variables
- Intelligent object reshaping: Image object fusion and condition based region growing
- Independent object hierarchies, the 'maps' concept; example: Change Detection
- Performance improvement: Working with 'regions' and 'maps'
- Working on own data

Format/Price:
Three days instructor-led training for up to 10 Participants; necessary software licenses will be provided; Price upon request (imaging_training@trimble.com)

Prerequisites and recommendations
Prerequisites: Remote Sensing and GIS knowledge, “eCognition Developer Tools and Functionalities“ course; work experience with eCognition Developer.
Recommendation: Talk with us about consulting to support you in your project work. Additionally also see our “eCognition Production” courses.
**Overview**

If the standard “Workflows and General Analysis Strategies” does not fit your needs, you can also combine modules of different length to a two days (ECOG-IT 6) or three days (ECOG-IT 7) course. It is an ideal course as a follow up to the “eCognition Developer Tools and Functionalities” with more flexibility than the standard course. The content is designed to lift you to the next level of more complex and dynamic object based image analysis and explains strategies to enhance your analysis. Our eCognition training team is happy to assist you with more information to select the modules for your course.

**Possible Modules**

Details see in the following chapters

<table>
<thead>
<tr>
<th>Days</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,75</td>
<td>Seed-grow-approach, iterative, dynamic series of segmentation and classification</td>
</tr>
<tr>
<td>0,25</td>
<td>Improve Rule Set transferability I: Using measurement techniques and variables</td>
</tr>
<tr>
<td>0,25</td>
<td>Intelligent object reshaping: condition based region growing and pixel-based resizing using surface tension</td>
</tr>
<tr>
<td>0,5</td>
<td>Rule Set Automation: Looping Process sequences Example: “Close Gaps”</td>
</tr>
<tr>
<td>0,75</td>
<td>Independent object hierarchies, the 'maps' concept; example: Change Detection</td>
</tr>
<tr>
<td>0,75</td>
<td>Performance improvement: Working with 'regions' and 'maps'</td>
</tr>
<tr>
<td>0,25</td>
<td>Efficient project management: Consulting methodology</td>
</tr>
<tr>
<td>0,5</td>
<td>Introduction to working with elevation data</td>
</tr>
</tbody>
</table>

**Format/Price:**

Instructor-led in-company training for up to 10 Participants; necessary software licenses will be provided; Price upon request (imaging_training@trimble.com)

**Prerequisites and recommendations**

Prerequisites: Remote Sensing and GIS knowledge, “eCognition Developer Tools and Functionalities” course; work experience with eCognition Developer.

Recommendation: After the course talk with us about consulting to support you in your project work. Additionally also see our “eCognition Production” courses.
Overview over possible Modules:

Module: Analysis strategy: ‘Seed-grow approach’: iterative, dynamic series of segmentation and classification
This module explains how to create an own segmentation routine using no predefined segmentation algorithm, but a series of segmentation, classification, re-segmentation and growing of objects to delineate the final objects of interest. The method is explained using an example of water classification, which gives insight into advanced techniques to create dynamic Rule Sets.

- Classify seed-objects for the class ‘Water’
- Create a buffer of “Candidate” objects from “Seed” objects
- Automatically grow initial objects into the buffer using spectral similarities

Module: Improve Rule Set transferability I: Using measurement techniques and variables
In this module variables, instead of fix thresholds for classification, are used. The values for these variables are automatically calculated by an algorithm. The Rule Set is then applied to several subsets demonstrating the advanced transferability using this technique.

- Introduction to ‘variables’
- The algorithm ‘compute statistical value’
- Replace fix values with variable
- Test the Rule Set using batch-processing

Module: Intelligent object reshaping
This module focuses on methods for growing and reshaping existing objects.

- Grow objects context based into neighborhood
- Pixel-based resizing - smooth and generalize outlines
- Pixel-based resizing - generalize using color condition
Module: Rule Set Automation: Looping process sequences; Example: "Close Gaps"

This module concentrates on how looping a process sequence helps to automate classification. Looping of process sequences means an automated repetition until a certain criteria is met. In this module not connected ends in a road network are closed. The looping is implemented by jumping automatically from one gap to the next until all are closed. And also the growing from a start to an end point is wrapped in a loop. Parts of the Rule set are:

- Generalize roads and identify isolated road objects using distance features and neighborhood analysis
- Create a condition based automated repetition of a process sequence
- Identify the START and END point of the growing process

Module: Independent object hierarchies, the 'maps' concept; Example: Change Detection

Maps are independent “sub-projects” which provide a high flexibility in object creation and synchronization. In this module the concept of ‘maps’ is explained using an example of Change Detection.

- Creating two independent maps
- Classifying vegetation on both maps individually
- Synchronizing content of maps
- Applying the actual change detection

Module: Performance improvement by focusing on area of interest: Working with 'regions' and 'maps'

This module gives an introduction on how to combine maps and regions to classify areas of interest in a fast and efficient way. The analysis on this example is a continuing interplay between identifying regions, creating maps, its classification and the synchronization of results.

- Introduction to the analysis workflow
- Classifying regions of interest via a map with lower resolution
- Detail analysis of water bodies using a detail map with full resolution
- The complete classification
Module: Efficient project management: Consulting methodology
Learn from the experiences of eCognition consulting team in successfully setting up and implementing large scale projects.

- Scoping
- Problem assessment
- Image and data staging
- Intelligence strategy
- In-depth development
- Deployment
- Project end or production

Introduction to working with elevation data
This module explains an advanced way of how to use LiDAR data which is converted in raster using eCognition software to extract buildings outlines. Buildings are classified in a robust and transferable way.

- Get more information out of your DSM data: the image filters
- Prevent border effects when creating temporary image layers
- Create image objects using the slope layer and ‘contrast split segmentation’
- Classify steep areas using slope information
- Classify ground by measuring the lowest elevation
- Classify buildings using the difference in elevation
- Clean up based on spectral layers, clean up highly surrounded objects
“eCognition Production and Domain focused” training course

In this category you can find courses focused on data analysis in production and specific subject domains.

Often it makes sense also to book rather consulting than one of the standard modules to exactly fit your needs and bring your image analysis to production level. Please talk with us about a customized course designed on your data and topics.

Prerequisite to attend one of the standard courses about “Production and Thematic Domain Focused Training” is to attend the “eCognition Developer Tools and Functionalities” as well as one course from the section “Workflows and General Analysis Strategies” and also have worked with the software for some time.

(ECOG-IT8) “eCognition Production and Domain focused”

This two day training provides insight in more complex and advanced analysis strategies.
(ECOG-IT8) "eCognition Production and Domain focused"

Overview
When your project is at a point where you need to create results in a production mode, the modules of this training will help you to get your data and processing up and running under control.

If you want to learn from our experts on strategies proven to be successful on specific subjects like LiDAR classification or Building Extraction etc. you will find modules which describe the general approach for the subject you are interested in. Combine the training with consulting, where modules and lessons are adapted to your needs and/or working with your own data.

Possible Modules “Production focus”
Details see in the following chapters

<table>
<thead>
<tr>
<th>Days</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25</td>
<td>Introduction to Workspace automation</td>
</tr>
<tr>
<td>0.5</td>
<td>Carry on important information: Workspace Automation using statistics</td>
</tr>
<tr>
<td>0.25</td>
<td>Performance Improvement Example: Combine Maps and Regions</td>
</tr>
<tr>
<td>0.25</td>
<td>Tips and Tricks for efficient Rule Sets calibration</td>
</tr>
<tr>
<td>0.25</td>
<td>Tips and Tricks to make Rule Sets reusable</td>
</tr>
<tr>
<td>1</td>
<td>Create a QA interface</td>
</tr>
<tr>
<td>0.25</td>
<td>Tips and Tricks to monitor mistakes/accuracy</td>
</tr>
</tbody>
</table>

Possible Modules “Domain focus”

<table>
<thead>
<tr>
<th>Days</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Coast line detection</td>
</tr>
<tr>
<td>0.25</td>
<td>Importing and using LiDAR *.las files in 2D</td>
</tr>
<tr>
<td>0.5</td>
<td>Introduction to working with elevation data</td>
</tr>
<tr>
<td>1</td>
<td>Building extraction with DSM data</td>
</tr>
<tr>
<td>1</td>
<td>Landcover change detection</td>
</tr>
<tr>
<td>1</td>
<td>Shrub classification and categorization</td>
</tr>
</tbody>
</table>

Format/Price:
Instructor-led in-company training (up to 10 Participants); Price upon request (imaging_training@trimble.com)

Prerequisites and recommendations
Prerequisites: Remote Sensing and GIS knowledge; “eCognition Developer Tools and Functionalities” course; “Workflows and General Analysis Strategy” courses; work experience with eCognition Developer.
Online Training

Overview Online Training

Currently, we offer the online training course package "Tools + Functionality I". This course is designed for Users new to eCognition. More course packages with advanced topics will follow.

Format and Duration:

The courses are available as self-study courses, you can get help via our eCognition Community platform. Every course contains a recorded webinar, theory and background information as well as detailed hands-on exercises. Every course is finalized by a quiz. When passing with 80% score, you receive a certificate. Join the eCognition Community to discuss training content and get help. Estimated duration altogether: 8 hours.

Registration:

The courses are hosted in the 'Trimble Learning Center' (http://www.trimblelms.com/tr_open_main_main.asp). Search for “eCognition” and you will be pointed to the “eCognition TFI Training Package”, which is the course to register for. After payment and approval all six subsequent courses, which belong to that package, are getting available, one after the other.

After registering for the “eCognition TFI Training Package” you will receive payment instructions containing one Order Form for the complete course package. Please fill in all necessary information, sign it and send it back to us.

Course Fee: $300/€250
# (ECOG-WT1) eCognition Tools + Functionality I

## Overview

The “Tools + Functionality I” course package consists of six individual courses plus a recorded webinar for general introduction. The course guides you through the basic methods and approaches to set up an image analysis with eCognition.

## Content

<table>
<thead>
<tr>
<th>eCognition Tools + Functionality I Course Package:</th>
<th>Watch this short introduction to the course package to understand content and structure of the online training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Course 0: Webinar General Introduction:</td>
<td>• Introduction to the eCognition software suite</td>
</tr>
<tr>
<td></td>
<td>• The main principals of the software</td>
</tr>
<tr>
<td></td>
<td>• Examples of different classification approaches</td>
</tr>
<tr>
<td>Online course 1: Understanding the workflow:</td>
<td>Gives an overview over eCognition and demonstrates an image analysis workflow form loading a project, analyzing it and exporting the results.</td>
</tr>
<tr>
<td></td>
<td>• Understanding the general principals and workflow</td>
</tr>
<tr>
<td></td>
<td>• Open eCognition project and evaluate development User Interface</td>
</tr>
<tr>
<td></td>
<td>• Execute and review segmentation and classification</td>
</tr>
<tr>
<td>Online course 2: Loading and displaying data:</td>
<td>Teaches how to handle and display data in eCognition</td>
</tr>
<tr>
<td></td>
<td>• Introduction to the eCognition data structure</td>
</tr>
<tr>
<td></td>
<td>• Creating a workspace and a project</td>
</tr>
<tr>
<td></td>
<td>• Creating subsets of projects</td>
</tr>
<tr>
<td></td>
<td>• Displaying loaded data</td>
</tr>
<tr>
<td></td>
<td>• Understanding the Layer Alias concept</td>
</tr>
<tr>
<td>Online course 3: About Rule Set programming:</td>
<td>Introduces you to the world of translating visual image analysis into eCognition processing steps.</td>
</tr>
<tr>
<td></td>
<td>• Introduction to eCognition Rule Set programming</td>
</tr>
<tr>
<td></td>
<td>• Tools for Rule Set programming</td>
</tr>
<tr>
<td></td>
<td>• About Rule Set structure, how to execute rules</td>
</tr>
<tr>
<td></td>
<td>• How to load and arrange, to delete and save Rule Sets</td>
</tr>
<tr>
<td></td>
<td>• How to modify and add a single process</td>
</tr>
</tbody>
</table>
### Online course 4: Creating objects
Shows you, step by step, how to create objects with different segmentation algorithms.

- Introduction to ‘Multiresolution Segmentation’ and scale parameter
- Understanding the influence of different layer selection
- Combining segmentations for performance improvement
- Creating shape file representation (chessboard segmentation)

### Online course 5: Knowledge-based Classification
Get an introduction to classification in general and learn how to find suitable features and thresholds for knowledge-based classification.

- Introduction to classification
- Tools to find features and thresholds
- Apply a threshold classification
- Apply a clean-up sequence using size criteria
- Use Class-Related Features to express context
- Outlook: Advanced classification approaches

### Online course 6: Exporting results
Shows you how to prepare your analysis for export and how to export in different formats.

- Prepare export by clean-up result
- Export a project statistic, vector layer, screenshot
- Use export variables