HEXAGON

Spatial Modeler Training

Hexagon's Geospatial Division

5 August 2020

Scope

Take geoprocessing to the next level in this two-day Spatial Modeler training course. During this training session, attendees are introduced to Spatial Modeler concepts and components, learn different ways of running and configuring models using the Spatial Modeler in ERDAS IMAGINE and GeoMedia, and run a variety of real-world geoprocessing models.

Spatial Modeler provides the user with hundreds of functions, algorithms, and analytical routines that can easily be chained together into models that solve geospatial problems.

At the end of this training, attendees should be able to perform professional analysis through expert workflows using images and vector data in automatic mode.

Agenda

General rules:

- Training will be conducted from 9:00 am to 5:30 pm (can be adjusted)
- There will be 15 minutes breaks during the training and one lunch break (1 hour)
- Trainees need to bring their own laptop

DAY 1	
Morning	Learning About the Feature Operators • Taking Geoprocessing to the next level using Spatial Modeler • Examples
Lunch Break	

Afternoon	Building Spatial Models Using the Spatial Model Editor Utility
	• In ERDAS IMAGINE
	  • Definition & Execution
	• In GeoMedia
	  • Spatial Modeler Editor Utility
	  • Managing and Executing Spatial Models in a Geoworkspace

DAY 2	
Morning	Spatial Modeler Real Examples in ERDAS IMAGINE • Brightness & Contrast • Bands Selection • BasicGaussianStretch • Tidy Up a Classified Image • Comparison of Forest Land Cover • Coast Line extraction from Image • Combine Vector Class to a Classified Landcover Image • Finding Helicopter Landing Zones • Locate Site for Military Barracks
Lunch Break	

Afternoon	Spatial Modeler Real Examples in ERDAS IMAGINE
	• Attribute Query
	• Band selection
	• Functional Attributes
	• Spatial Query & Union
	• Network verification
	  • Dangling nodes
	  • One way anomalies
	  • 3D Length Measurements
	• Urban expansion

Prerequisites

- Attendees must be proficient in the English language
- Attendees must have basic knowledge of ERDAS IMAGINE
- Attendees must have generic GIS skills: geospatial information concepts, data formats, coordinate systems, etc.

Hardware Requirements

Supported and Recommended	
CPU	64-bit: Intel 64 (EM64T), AMD 64, or equivalent (Multi-core processors are strongly recommended)

Memory / RAM	16 GB or more strongly recommended
Disk Space	4 GB for software 15 GB for example data
Display properties	24-bit color depth
Graphic card recommended	NVIDIA® Quadro® K5200, K4200, K2200, K420 NVIDIA Quadro K5000, K4000, K600 or equivalent dedicated graphic cards
Peripherals	Mouse or pen for input

Software Requirements

Operating system for Java based client (for example)
Windows® 7 SP1 or higher, Professional and Ultimate (64-bit)
Windows® 8 (Standard), Professional and Enterprise (64-bit)
Windows® 8.1 (Standard), Professional and Enterprise (64-bit)
Windows 10 Pro (64-bit)

Public Training Schedule

Date	Location	Type

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates solutions that deliver a 5D smart digital reality with insight into what was, what is, what could be, what should be, and ultimately, what will be.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.3bn USD. Learn more at hexagon.com and follow us @HexagonAB.