

AutoCAD Raster Design Essentials

Course description

This course is designed for new users who require AutoCAD® Raster Design software to create, insert, manage, and edit raster images in AutoCAD®-based products. Through this course, students learn the skills to use the features and functions of AutoCAD Raster Design software. The course topics are fundamental to pursuing more advanced topics in the future.

Course duration: 2 days
Courseware provided: Yes

Objectives

The primary objective of this course is for students to learn the basic functionality of AutoCAD Raster Design software and through practice, learn how to create, insert, manage, and edit raster data.

After completing this course, students will be able to:

- Insert and create images.
- Tile, save, and export images.
- Work with multispectral images.
- Correlate and rubbersheet images.
- Enhance the appearance of images.
- Edit images.
- Work with DEM data.
- Convert raster to vector.

Who should attend?

This course is designed for new users of AutoCAD Raster Design.

Pre-requisites

It is recommended that students complete the *AutoCAD Essentials* course or know how to use AutoCAD software to create basic geometry, manage layers, enter commands, and manage files. It is also recommended that students have a working knowledge of Microsoft® Windows®.



Course Outline

Day 1

Inserting and Creating Images

- Creating a New Image
- Inserting Images
- Using the Image Management Option in Toolspace
- Masking Images

Tiling, Saving, and Exporting Images

- Working with Tiled Images
- Merging Images
- Saving Images
- Exporting Images

Working with Multispectral Images

- Inserting and Analyzing Multispectral Images

Correlating and Rubbersheeting Images

- Correlating Scanned Drawings
- Rubbersheeting Images

Day 2

Enhancing the Appearance of Images

- Using the Editing Filters
- Using the Bitonal Filters
- Using the Convolve Filters
- Working with the Histogram
- Controlling the Colors with the Palette Manager

Editing Images

- Removing Defects from an Image with Editing Filters
- Editing Images Using Raster Entity Manipulation
- Merging Vectors into Raster Images

Working with DEM Data

- Inserting and Analyzing DEM Data

Raster-to-Vector Conversion

- Using Vectorization Tools for Interactive Conversion
- Using Vectorization Line Following Tools
- Creating Contours with Elevation Using Contour Follower
- Converting Text

Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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