

**Course:****INROADS V8.2 - BASICS COURSE****Course Description:**

This 4 day course is designed for Civil/Highway Engineers, Designers, and Drafters with no prior experience in InRoads. Who want to learn to apply automation with design and drafting for site design, highway design, and COGO layout using InRoads version 8.2. This course will focus on the basics in understanding InRoads. We use preferences and data sets focusing on DOT standards, similar to those in which the students may encounter in everyday work environment. We use actual data sets similar to those in which the students may encounter in everyday work environment. After completion of this course a student will have working knowledge to design a site or highway using InRoads SelectCAD. They will have knowledge of productive techniques to develop CAD plans, profiles and cross sections showing the design. Be able to create a Digital Terrain Model (DTM) of the proposed surface features, and evaluate the DTM using triangles, contours and volumes.

**Prerequisites:**

Students should have experience in highway and/or site design; understand fundamentals of geometry and civil plans. Working knowledge of MicroStation SE or J is recommended.

**Date:** Contact us for details or see schedule on our site.

**Location:** Contact us for details.

**Enrollment Cost:** \$950 per student or \$1000 per day at your location.

**Contact:**

To enroll, please call **315-831-8175** or send email to **Training@LeeGreen.com**. This class does have a limit of 15 students. If you have any questions about this class, or if you would like to schedule an on-site class, please call or email.

**Course Topics include:****☐ 1) SelectCAD Configuration**

- Open from Start menu
- Loading InRoads
- Project Defaults paths
- Tool options
  - o Symbology Manager
  - o Preference Manager
  - o Feature Style Manager
  - o Locks

**☐ 2) Getting accustomed to user interface**

- Working with SelectCAD explorer
- Multi-user settings
- Tool bars

**☐ 3) Surfaces**

- Digital Terrain Model (DTM)
- Features: why you want to use them?
- Importing from ASCII & Graphics
- Triangulating
- Editing existing DTM's
- Creating and editing features styles.

**☐ 4) Geometry**

- Horizontal Alignments
- Horizontal Elements
- Compound curves
- Spiral Curves
- Linear Regression analysis
- Intersections
- Cogo Points
- Vertical Alignments
- Vertical Elements

**☐ 5) Highway Design**

- Super Elevations
- Templates
- Introduction to Decision Tables
- Transition Control
- Plan and Profile Generator
- Volumes and reports

**☐ 6) Site Design**

- Drape Surface
- Generate longitudinal features
- Generate sloped surface
- Isopach