



## 2-DAY INTRODUCTORY COURSE OUTLINE

- I. Introductions
- II. Getting Comfortable – AGi32 Interface and Settings
  - A. Understanding the AGi32 Interface: so you can find what you need
  - B. Adjusting system Settings: making it just right for your use
- III. What are the 5 Steps to Success?
  - A. Step 1 – Develop a Frame of Reference
    1. Draw Simple Line Data in AGi32
    2. Import 2D CAD Background
    3. Create a 3D Environment Using AGi32
    4. Import 3D CAD Background
  - B. Step 2 - Obtain, Define and Locate Luminaire Photometry
    1. Obtain Luminaire Photometry
      - a. Instabase
      - b. Select
      - c. Find
      - d. Internet
    2. Define Luminaire Photometry
    3. Locate Luminaires
    4. Modify Luminaire Locations
  - C. Step 3 – Set Up and Perform Calculations
    1. Direct Lighting Calculations
    2. Full Radiosity Lighting Calculations
  - D. Step 4 – Examine Visualization
    1. Radiosity Rendering
    2. Ray Traced Rendering
  - E. Step 5 - Presentation
    1. WYSIWYG in Model Mode
    2. Exporting to CAD
    3. Page Builder
- IV. Applying the Five Steps Through Example
  - A. Basic Lighting – Luminaires & Points in simple site lighting
    1. Drawing the background
    2. Utilizing iso-footcandle (iso-lux) templates
    3. Placing luminaires in arrays
    4. Automatic placement of calculation points
    5. Placing schedules on point-by-point results
  - B. Site Lighting: a more complicated example, including rendering
    1. Importing DWG file as background
    2. Placing objects on the site (building, trees, parking islands)
    3. Placing single luminaires and groups
    4. Evaluating calculation results via max, min, and other statistics
    5. Improving the rendered results with anti-aliasing and other tricks

6. RGB rendering vs. pseudo-color rendering
- C. Room Estimator
  1. Getting a quick estimate, based on the Zonal Cavity Method
- D. Interior Lighting: electric lighting only
  1. Add textures to room surfaces
  2. Place luminaires individually and in arrays
  3. Add calc points automatically to the work plane
  4. Navigate through the rendered result
- E. Daylighting: bringing light into the building, with or without electric lighting
  1. Cut window openings and add glass, specifying the transmittance
  2. Specify time, date and sky condition for daylighting analysis
  3. Specify location and orientation of building
  4. Calculate daylight contribution and electric lighting together or separately
- F. Project Management: Breaking big projects into smaller pieces for purposes of calculation, ease of editing, visibility, or evaluation of different options.

NOTE: NOT included in this course: Roadway lighting design & analysis. This is covered in detail in our Roadway Emphasis course, taught periodically in Littleton, Colorado. It should be noted, however, that many of the skills and methods used in AGi32 for interior lighting and exterior area lighting are also applicable to roadway lighting.

For more information on the Roadway Emphasis course, go here on our Web site:  
[http://www.agi32.com/Training/training\\_CO.htm](http://www.agi32.com/Training/training_CO.htm). Scroll down to the Roadway info.