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## AutoCAD® 2010 Fundamentals

- Tuition: \$995.00/per person
- Prerequisite: Windows® 2000 or XP Operating System experience.
- Available times depend on the schedules of both instructor and student(s).

### Topics Include:

- **User Interface: Dynamic Input**, Application Window, Drawing Window, Multi-Design Environment, Enterprise CUI, Menus, Ribbon Tabs and Panels, Cursor Menus, Command Line, Right-Click Shortcut menus, AutoCAD® Text Window, Status Area, Function Keys, Help, Using the user interface, Auto complete
- **Tool Palettes**; Customize, Import/Export, Locking
- **Creating and Accessing Drawing Files**: Creating, Saving, Opening, Backups
- **Getting Started**: Creating Lines, Coordinate Entry, Selecting/ Removing Objects
- **Design Tools**; AutoSnap, Hyperlinks on Objects, Object Properties Manager, **Draw Commands and Features**: Creating Circles and Arcs, Creating Points, Creating Polylines, Creating Ellipses and Elliptical Arcs, Creating Splines, Creating Construction Objects, Design Center, **Communication Center**
- **Layers and Object Properties**: Layer Groups and Filters, Creating and Managing Layers, Controlling Object Properties, CAD Standards,
- **Inquiry Commands**: Distance, Area, Mass Properties, List, ID Point, Time, Status
- **Display Commands**: the View, Viewports, Updating the Display
- **Object Snaps**: Using Object Snaps, Running Osnaps, Osnap Overrides, Controlling Auto-Snaps, Object Tracking and Polar Tracking
- **Edit Commands and Features**: Editing with Grips, Edit Commands, Draw Order
- **Hatching: Auto-close boundary gaps, Trim**, Associative Hatching, Controlling Hatch Visibility, Converting Hatch Patterns, Backward Compatibility, Auto Draworder. Add to boundary, Specify origin
- **Tables, Fields, Callouts**
- **Drawing Annotation**: Creating Dynamic Text, Creating Multi-line Text with a background mask, Creating Text Styles, Editing Text, Spell Check, Spacetrans
- **Dimensioning**: Arc Length, Jogged Dimension, Creating and Editing, Associative Dimensions, Quick Dimension, Styles, Variables, linetypes for all dim lines.
- **External References**: Introduction to xrefing dwgs, dwfs pdfs, images, Overlay versus attach.
- **Blocks and Dynamic Blocks**: data extraction, Description, Creating and Updating Block Definitions, In-Place Block Edit, Inserting Block Files, Defining Attributes, Modifying Attributes,
- **Sheet Set Manager**; creating a Sheet Index
- **Printing and Plotting: Publish, Background Plotting**, Print/Plot Config. Dialog Box, Model Space/Paper Space Plotting, Creating Plot Styles, Defining Page Setups
- **Preferences**: Setting AutoCAD® Options, Windows Configuration Considerations
- **Utility Commands**: Purge Utility, Utility Dialog Box, Exporting Files, EditTime,
- **Conceptual Design Features**: 3d editing tool, loft, massing tools, Visual styles, Realistic Renderings (Mental Ray), Material and lighting effects, sectioning tools

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