

CADCourse Essentials v11 - Part 1 - Line Tools

Contents

001 – Introductions

2:23 min

Rob Berry, Dave Taylor and Jack Zimmer

002 - Interface Options

5:11 min

Starting TurboCAD

Sharing the Desktop over the Internet

CADCourse Interface

Tabbed Toolbars

Starting a New Drawing

Using Templates and Paper Borders

Page Setup Wizard

New from Scratch

Layout of Tools

003 - Setup Configuration Layout

2:18 min

Default TurboCAD Toolbar Interface

Specific CADCourse Interface

V10 vs V11 Interface

Copying the CADCourse Configuration file to the hard drive

004 - Interface Options Continued

3:54 min

Pop up Menus

Turning Custom Menu On

Snap Mode is not Active within Aperture

Turning Snaps On and Off

Discussion of Interface Layout

Customizing the Interface with Tool Groups and Tabbed Toolbars

Discussion of V10 Interface with Flyout Menus

005 - The Line Tool

2:09 min

How to Draw a Line

The Line Toolbar

The Single Line Tool

Understanding the Toolbar Icons

CAD is Precision.

006 - Introducing Snap Modes

2:15 min

Cursor coordinates

Context sensitive help

No Snap behaves as a Toggle

Vertex Snap and Snap Indicators

SEKE's Do Not Need a Mouse Click

007 - Drawing a Line with SEKES and Inspector Bar

2:35 min

The Line tool in combination with the Inspector Bar

Entering Lengths and Angles

Using the V (Vertex) SEKE shortcut key in combination with the inspector bar.

008 - Selector Properties

7:32 min

Passing mouse control to other Instructors in the CADCourse Training Center.

The XYZ Coordinate System.

The Tool Prompts in the Status Bar

Drawing Line with the Coordinate system in the Status Bar

Opening and Closing the Palettes

Selection Info Palette

Lines Properties

Changing the Values of the Line in the Metrics Section of Info Palette

Inspector Bar in Selection Mode

Yellow Reference Point

Turning on Off the Inspector Bar

Selector 2D /3D Properties

Turning on Delta X Y Z fields in Inspector Bar

009 - Precision with Snaps

5:18 min

Why are Snaps Important?

How to Delete a Line with the Selection Tool

Drawing a Line with No Snaps

Zoom Window Tool

Selection Info

Zoom Extents

Zooming with the Wheel Mouse

Discussion of Wheel Mouse Customization and 3D views

Top View to Realign

Drawing a Line Accurately with SEKES

010 - More Snaps

6:46 min

Activating the Snap with the Snaps On/Off Toggle

Vertex Snap and Show Magnet Point

Rubber banding “erasing” other lines

Drawing the Line with the Vertex Snap on the Toolbar

Middle Point Snap

Cursor changes to display the active Snap mode

Division Snap

Drawing Aids Dialog via Right Click on Status Bar

Changing Setting of Division Snap

No Snap functionality has changed from version to version

Undo and Redo commands

Help list of Keyboard Shortcuts

011 - Saving the Drawing

2: 38 min

Important of Saving Frequently using the Save As

Choosing the File Format

Saving to Earlier Versions of TurboCAD

Default My Documents\TurboCAD folder

Saving Incrementally to guard against Corrupted Drawings

012 - Saving Incrementally

2:45 min

Save As demonstrated with Incremental Names

Renaming the Drawing

Grandfather, Father, Son backup method

Opening a file

Open Drawings appear in the Window Menu

Drawing Name in the Title bar

Titling Open Drawings

Maximizing Windows

013 - Saving in Different File Formats

5:44 min

Saving a drawing for earlier versions of TurboCAD

Upward Compatibility not Downward

History and drawing options as thumb nails

Changing specific import/export properties via the setup button

Save As DWG format

Choosing AutoCAD drawing format

Danger of losing information outside of the TurboCAD format

Data loss during exporting to other programs

014 - Dealing with Corrupt Files

3: 22 min

Auto Save and Backup Options

Opening the Windows Explorer

Renaming Backup Files in case of emergency

Don't Rely on auto backups

Recovering a corrupt file via Inserting a New file

Save and Save Often

015 - Screen Resolution

2:24 min

Viewing Multiple Drawings

Changing the Screen Resolution

Closing all drawings

Recently used files list

Closing drawings

Opening Drawing

016 - Click-Click Preferred Methodology

3: 02 min

Deleting a line

Undo

Moving by dragging

Click-Click Reference Point to Move accurately

Using Reference Point to Position accurately

Do Not Drag

017 - Open and Closed Window Selection Modes

2:37 min

Redraw to Refresh the Screen

Selecting Lines with the Selection Marquee

Open and Closing the Window via right click local menu

Difference between Open and Closed Selection Modes

018 - Moving, Scaling & Rotating Objects

4:59 min

Aligning the ends of objects together with the Reference Point

Relocating the Reference Point

Default Reference point

Shift Key to force Orthogonal Mode

Select Tool Shortcut

Resizing Objects and how Different Reference Points cause different results

Rotation Handle in relation to Reference Point

019 - Polyline Tool

2:34 min

Drawing a Continuous Line

Changing the Color of the LINE

Color Palette

The Property Tool

020 - Snap Aperture

1:58 min

Snaps outside aperture cause Snap Beeping Error

Show/Hide Aperture

How Snap Aperture changes snap results

021 - Properties

3:38 min

Right click to access Tool Properties

Changing Default Properties

Loading the ACIS 3D Solid Modeling Engine

Default Property Pages

Unique properties to different entities

Double to access entities properties

022 - The Edit Tool with a Polyline

6:00 min

Select All objects and change Global Properties.

Delete All objects

Differences between Polyline and Line Tools

Edit to Edit Nodes

Adding Nodes

Using inspector and status bar to define points

Using snaps modes to define the polyline

Adding Arc segments in to the Polyline

Edit Tool to Move Nodes and Change Radius

Using the S Shortcut key to Override Snap Modes

023 - Open and Closed Polylines

3:40 min

The Differences between Closed and Open Polylines

Applying a Hatch Fill Pattern

Using the Edit Tool to Close polylines

Breaking Apart Polylines

Selecting Multiple Nodes

Changing the Direction Of Arcs within a Polyline

Switching between Arc and Line Segments

024 - Regular Polygon Distance

3:13 min

Defining the Polygon by Center or by corner

Drawing Triangles and Squares with the Polygon Tool

Defining a Polygon by Side Length

Tab and Shift Tab Shortcut Keys

Using the Distance Measurement Tool

025 - View Tools

6:04 min

Using the Wheel Mouse with the Cursor

Zoom In and Out

Zoom Extents

Deleting objects

Zoom Window

Aerial View Palette with Zoom and Pan

Zoom Extents in Local Menu

Vector Pan

Zoom to Selection

Zoom to Full View

One to One View

Paper Space vs Model Space can be found in CADCourse Print Solution

026 - Drawing Tools

4:06 min

Irregular Polygon compared to regular polyline

Showing/Hiding/Resizing Palettes

Irregular Polygon compared to regular polyline

Rectangle Tool

Size A B in Inspector Bar

Using negative values in the Inspector Bar

027 - Positioning objects in relation to others

3:36 min

Drawing a line a specified distance from another line

Construction Parallel Lines

Positive and negative offsets

Intersection Snap mode

Delta X Y fields in inspector bar

Relocating the reference point

028 - Construction Circles and Center Snap

1:53 min

Finding the middle of two points

M for Midpoint snap

Construction Circle Two Points

Center Snap

Deleting Construction Lines

OT01 - Geometric Select Edit

Differences in selection modes depending on the thickness of the line.

OT02 - Choice of Selection

Discussion regarding new selection feature in v11