




Arbortext IsoDraw 7.0 Curriculum Guide


NOTE: For a graphical depiction of the curriculum based on job role, please visit this page:
http://www.ptc.com/services/edserv/learning/paths/ptc/isodraw_70.htm


Arbortext IsoDraw 7.0 Curriculum

LEGEND

 Training Class
  Live Classroom
  Web-based Training


Technical Illustrator


Foundation 

Course sections available online 

- [Arbortext IsoDraw Basics and Drawing Basic Shapes](#)
- [Basic Manipulation](#)
- [Composition and Layout](#)
- [Transformation Tools](#)
- [Compound Paths](#)
- [Advanced Tools](#)
- [Annotation and Callouts](#)
- [Customizing the User Environment and Macros](#)
- [Exercise without Instructions](#)
- [New 2-D Features](#)
- [Creating a Template](#)

Technical Illustrator (using CAD Data)

Foundation with CAD Process 

Course sections available online 

- [Arbortext IsoDraw Basics and Drawing Basic Shapes](#)
- [Basic Manipulation](#)
- [Composition and Layout](#)
- [Transformation Tools](#)
- [Compound Paths](#)
- [Advanced Tools](#)
- [Annotation and Callouts](#)
- [Customizing the User Environment and Macros](#)
- [Exercise without Instructions](#)
- [Object Information and 3-D Import Options](#)
- [Selection of Assemblies](#)
- [Convert to 2-D Options and Settings](#)
- [3-D Window and Selecting Surfaces](#)
- [Exercises](#)
- [New 2-D Features](#)
- [New 3-D Features](#)

Technical Illustrator (New to CAD Data)

Update 

Course sections available online 

- [Basic Manipulation](#)
- [Transformation Tools](#)
- [Advanced Tools Update](#)
- [Understanding the Computer Graphics Metafile \(CGM\)](#)
- [Creating a Template](#)
- [New 2-D Features](#)
- [Object Information and 3-D Import Options](#)
- [Selection of Assemblies](#)
- [Convert to 2-D Options and Settings](#)
- [3-D Window and Selecting Surfaces](#)
- [Exercises](#)
- [New 3-D Features](#)

Live Classroom Curriculum Guide

- Arbortext IsoDraw 7.0 Foundation with CADprocess
 - Arbortext IsoDraw 7.0 Foundation
 - Arbortext IsoDraw 7.0 Update
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Arbortext IsoDraw 7.0 Foundation with CADprocess

| | |
|---------------|------------|
| Course Code | TRN-2345-T |
| Course Length | 3 Days |

Overview

In this course, you learn basic and advanced drawing operations of Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents. You will also learn how to project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn how to automate the creation of technical illustrations from existing 3-D CAD data. You will learn how to draw and view entities, understand 3-D projections, moves, and rotation and how to use the Objects window. You will also learn about the new features available in this version of Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment
- Background or related experience in an Engineering or Technical Publications Department

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Arbortext IsoDraw Basics
 - Arbortext IsoDraw Delete Functions
 - Cylinder 1
 - Cylinder 2
 - Pin
 - Screw
 - Toolbars
 - Align
 - Distribute
 - Basic manipulation exercises
 - Fit elements
 - Library Window
 - Transformation tools
-

- Extrusion tool 1
 - Fills with Holes
 - Advanced tools
 - Manual Application of Callouts
 - Automatic Application of Callouts
 - Creating Callouts from Object Names
 - Generating Callouts from an Object List
 - Macros
 - Exercise without Instructions
 - Object information for assemblies
 - Drawing and view entities
 - Several drawings and views
 - Selecting automatic best view
 - Ignore invisible elements
 - IGES options
 - Selecting assemblies
 - Selecting of structures
 - Referenced components
 - Smooth surface accuracy
 - Create border lines
 - 3-D projections
 - 3-D move
 - 3-D rotation
 - Direct selection cursor
 - 3-D axis selector
 - 3-D cutting tool
 - 3-D transparency
 - Creation of a gasket
 - The Objects window
 - New 2-D Features
 - New 3-D Features
-

Agenda

Day 1

| | |
|-----------|------------------------------------|
| Module 1 | Arbortext IsoDraw Basics |
| Module 2 | Arbortext IsoDraw Delete Functions |
| Module 3 | Cylinder 1 |
| Module 4 | Cylinder 2 |
| Module 5 | Pin |
| Module 6 | Screw |
| Module 7 | Toolbars |
| Module 8 | Align |
| Module 09 | Distribute |
| Module 10 | Basic Manipulation |
| Module 11 | Fit Elements |

Day 2

| | |
|-----------|---|
| Module 12 | Library Window |
| Module 13 | Dimensions |
| Module 14 | Transformation Tools |
| Module 15 | Extrusion Tool 1 |
| Module 16 | Fills with holes |
| Module 17 | Advanced Tools |
| Module 18 | Manual Application of Callouts |
| Module 19 | Automatic Application of Callouts |
| Module 20 | Creating Callouts from Object Names |
| Module 21 | Generating Callouts from an Object list |
| Module 22 | Macros |
| Module 23 | Exercise without Instructions |

Day 3

| | |
|-----------|-----------------------------------|
| Module 24 | Object Information for Assemblies |
|-----------|-----------------------------------|

| | |
|-----------|-------------------------------|
| Module 25 | Drawing and View Entities |
| Module 26 | Several Drawings and Views |
| Module 27 | Selecting Automatic Best View |
| Module 28 | Ignore Invisible Elements |
| Module 29 | IGES Import Options |
| Module 30 | Selecting Assemblies |
| Module 31 | Selection of Structures |
| Module 32 | Referenced Components |
| Module 33 | Smooth Surface Accuracy |
| Module 34 | Create Border Lines |
| Module 35 | 3-D Projections |
| Module 36 | 3-D Move |
| Module 37 | 3-D Rotation |
| Module 38 | Direct Selection Cursor |
| Module 39 | 3-D Axis Selector |
| Module 40 | 3-D Cutting Tool |
| Module 41 | 3-D Transparency |
| Module 42 | Exercise |
| Module 43 | Creation of a Gasket |
| Module 44 | The Objects Window |
| Module 45 | New 2-D Features |
| Module 46 | New 3-D Features |

Arbortext IsoDraw 7.0 Foundation

| | |
|---------------|------------|
| Course Code | TRN-2346-T |
| Course Length | 2 Days |

Overview

In this course, you will learn basic and advanced drawing operations of Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents. You will also learn how to project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn about the new features available in this version of Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment
- Background or related experience in an Engineering or Technical Publications Department

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Arbortext IsoDraw Basics
 - Arbortext IsoDraw Delete Functions
 - Cylinder 1
 - Cylinder 2
 - Pin
 - Screw
 - Toolbars
 - Align
 - Distribute
 - Basic Manipulation Exercises
 - Fit Elements
 - Library Window
 - Dimensions
 - Transformation Tools
 - Extrusion Tool 1
 - Fills with Holes
-

- Advanced Tools
 - Manual Application of Callouts
 - Automatic Application of Callouts
 - Creating Callouts from Object Names
 - Generating Callouts from an Object List
 - Macros
 - Exercise without Instructions
 - New 2-D Features
 - Creating Templates
-

Agenda

Day 1

| | |
|-----------|------------------------------------|
| Module 1 | Arbortext IsoDraw Basics |
| Module 2 | Arbortext IsoDraw Delete Functions |
| Module 3 | Cylinder 1 |
| Module 4 | Cylinder 2 |
| Module 5 | Pin |
| Module 6 | Screw |
| Module 7 | Toolbars |
| Module 8 | Align |
| Module 09 | Distribute |
| Module 10 | Basic Manipulation |
| Module 11 | Fit Elements |

Day 2

| | |
|-----------|---|
| Module 12 | Library Window |
| Module 13 | Dimensions |
| Module 14 | Transformation Tools |
| Module 15 | Extrusion Tool 1 |
| Module 16 | Fills with holes |
| Module 17 | Advanced Tools |
| Module 18 | Manual Application of Callouts |
| Module 19 | Automatic Application of Callouts |
| Module 20 | Creating Callouts from Object Names |
| Module 21 | Generating Callouts from an Object list |
| Module 22 | Macros |
| Module 23 | Exercise without Instructions |
| Module 24 | New 2-D Features |
| Module 25 | Creating a Template |

Arbortext IsoDraw 7.0 Update

| | |
|---------------|------------|
| Course Code | TRN-2347-T |
| Course Length | 2 Days |

Overview

In this course, you will learn basic and advanced drawing operations for Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents, project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn how to automate the creation of technical illustrations from existing 3-D CAD data. You will also learn how to draw and view entities, understand 3-D projections, moves, and rotation, and how to use the Objects window. Finally, you will learn about the new features available in Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment.
- Background or related experience in an Engineering or Technical Publications Department.

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Basic Manipulation Exercises
 - Transformation Tools
 - Advanced Tools
 - Understanding the Computer Graphics Metafile (CGM)
 - Creating Templates
 - New Features
 - Object Information for Assemblies
 - Drawing and View Entities
 - Several Drawings and Views
 - Selecting Automatic Best View
 - Ignore Invisible Elements
 - IGES Options
 - Selecting Assemblies
 - Selecting of Structures
-

- Referenced Components
 - Smooth Surface Accuracy
 - Create Border Lines
 - 3-D Projections
 - 3-D Move
 - 3-D Rotation
 - Direct Selection Cursor
 - 3-D Axis Selector
 - 3-D Cutting Tool
 - 3-D Transparency
 - Creation of a Gasket
 - The Objects Window
 - New Features: File formats, Animation, Browser Window
-

Agenda

Day 1

| | |
|----------|--|
| Module 1 | Basic Manipulation |
| Module 2 | Transformation Tools |
| Module 3 | Advanced Tools |
| Module 4 | Understanding the Computer Graphics Metafile (CGM) |
| Module 5 | Creating a Template |
| Module 6 | New 2-D Features |

Day 2

| | |
|-----------|-----------------------------------|
| Module 7 | Object Information for Assemblies |
| Module 8 | Drawing and View Entities |
| Module 9 | Several Drawings and Views |
| Module 10 | Selecting Automatic Best View |
| Module 11 | Ignore Invisible Elements |
| Module 12 | IGES Import Options |
| Module 13 | Selecting Assemblies |
| Module 14 | Selection of Structures |
| Module 15 | Referenced Components |
| Module 16 | Smooth Surface Accuracy |
| Module 17 | Create Border Lines |
| Module 18 | 3-D Projections |
| Module 19 | 3-D Move |
| Module 20 | 3-D Rotation |
| Module 21 | Direct Selection Cursor |
| Module 22 | 3-D Axis Selector |
| Module 23 | 3-D Cutting Tool |
| Module 24 | 3-D Transparency |
| Module 25 | Exercise |
| Module 26 | Creation of a Gasket |
| Module 27 | The Objects Window |

Web Based Curriculum Guide

- Arbortext IsoDraw 7.0 Foundation with CADprocess
 - Arbortext IsoDraw 7.0 Foundation
 - Arbortext IsoDraw 7.0 Update
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Arbortext IsoDraw 7.0 Foundation with CADprocess

| | |
|---------------|---------------|
| Course Code | TRN-WBT2345-S |
| Course Length | 24 Hours |

Overview

In this course, you learn basic and advanced drawing operations of Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents. You will also learn how to project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn how to automate the creation of technical illustrations from existing 3-D CAD data. You will learn how to draw and view entities, understand 3-D projections, moves, and rotation and how to use the Objects window. You will also learn about the new features available in this version of Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment
- Background or related experience in an Engineering or Technical Publications Department

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Arbortext IsoDraw Basics
 - Arbortext IsoDraw Delete Functions
 - Cylinder 1
 - Cylinder 2
 - Pin
 - Screw
 - Toolbars
 - Align
 - Distribute
 - Basic manipulation exercises
 - Fit elements
 - Library Window
 - Transformation tools
-

- Extrusion tool 1
 - Fills with Holes
 - Advanced tools
 - Manual Application of Callouts
 - Automatic Application of Callouts
 - Creating Callouts from Object Names
 - Generating Callouts from an Object List
 - Macros
 - Exercise without Instructions
 - Object information for assemblies
 - Drawing and view entities
 - Several drawings and views
 - Selecting automatic best view
 - Ignore invisible elements
 - IGES options
 - Selecting assemblies
 - Selecting of structures
 - Referenced components
 - Smooth surface accuracy
 - Create border lines
 - 3-D projections
 - 3-D move
 - 3-D rotation
 - Direct selection cursor
 - 3-D axis selector
 - 3-D cutting tool
 - 3-D transparency
 - Creation of a gasket
 - The Objects window
 - New 2-D Features
 - New 3-D Features
-

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| Module 2 | Arbortext IsoDraw Delete Functions |
| Module 3 | Cylinder 1 |
| Module 4 | Cylinder 2 |
| Module 5 | Pin |
| Module 6 | Screw |
| Module 7 | Toolbars |
| Module 8 | Align |
| Module 9 | Distribute |
| Module 10 | Basic Manipulation |
| Module 11 | Fit Elements |
| Module 12 | Library Window |
| Module 13 | Dimensions |
| Module 14 | Transformation Tools |
| Module 15 | Extrusion Tool |
| Module 16 | Fills with Holes |
| Module 17 | Advanced Tools |
| Module 18 | Manual Application of Callouts |
| Module 19 | Automatic Application of Callouts |
| Module 20 | Creating Callouts from Object Names |
| Module 21 | Generating Callouts from an Object list |
| Module 22 | Macros |
| Module 23 | Exercise without Instructions |
| Module 24 | Object information for assemblies |
| Module 25 | Drawing and view entities |
| Module 26 | Several Drawings and Views |
| Module 27 | Selecting Automatic Best View |
| Module 28 | Ignore Invisible Elements |
| Module 29 | IGES Import Options |
| Module 30 | Selecting Assemblies |

| | |
|-----------|-------------------------|
| Module 31 | Selection of Structures |
| Module 32 | Referenced Components |
| Module 33 | Smooth Surface Accuracy |
| Module 34 | Create Border Lines |
| Module 35 | 3-D Projections |
| Module 36 | 3-D Move |
| Module 37 | 3-D Rotation |
| Module 38 | Direct Selection Cursor |
| Module 39 | 3-D Axis Selector |
| Module 40 | 3-D Cutting Tool |
| Module 41 | 3-D Transparency |
| Module 42 | Exercise |
| Module 43 | Creation of a Gasket |
| Module 44 | The Objects Window |
| Module 45 | New 2-D Features |
| Module 46 | New 3-D Features |

Arbortext IsoDraw 7.0 Foundation

| | |
|---------------|---------------|
| Course Code | TRN-WBT2346-S |
| Course Length | 16 Hours |

Overview

In this course, you will learn basic and advanced drawing operations of Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents. You will also learn how to project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn about the new features available in this version of Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment
- Background or related experience in an Engineering or Technical Publications Department

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Arbortext IsoDraw Basics
 - Arbortext IsoDraw Delete Functions
 - Cylinder 1
 - Cylinder 2
 - Pin
 - Screw
 - Toolbars
 - Align
 - Distribute
 - Basic Manipulation Exercises
 - Fit Elements
 - Library Window
 - Dimensions
 - Transformation Tools
 - Extrusion Tool 1
 - Fills with Holes
-

- Advanced Tools
 - Manual Application of Callouts
 - Automatic Application of Callouts
 - Creating Callouts from Object Names
 - Generating Callouts from an Object List
 - Macros
 - Exercise without Instructions
 - New 2-D Features
 - Creating Templates
-

Table of Contents

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| Module 1 | Arbortext IsoDraw Basics |
| Module 2 | Arbortext IsoDraw Delete Functions |
| Module 3 | Cylinder 1 |
| Module 4 | Cylinder 2 |
| Module 5 | Pin |
| Module 6 | Screw |
| Module 7 | Toolbars |
| Module 8 | Align |
| Module 9 | Distribute |
| Module 10 | Basic Manipulation |
| Module 11 | Fit Elements |
| Module 12 | Library Window |
| Module 13 | Dimensions |
| Module 14 | Transformation Tools |
| Module 15 | Extrusion Tool |
| Module 16 | Fills with Holes |
| Module 17 | Advanced Tools |
| Module 18 | Manual Application of Callouts |
| Module 19 | Automatic Application of Callouts |
| Module 20 | Creating Callouts from Object Names |
| Module 21 | Generating Callouts from an Object list |
| Module 22 | Macros |
| Module 23 | Exercise without Instructions |
| Module 24 | New 2-D Features |
| Module 25 | Creating a Template |

Arbortext IsoDraw 7.0 Update

| | |
|---------------|---------------|
| Course Code | TRN-WBT2347-S |
| Course Length | 16 Hours |

Overview

In this course, you will learn basic and advanced drawing operations for Arbortext IsoDraw. This course emphasizes hands-on experience, interaction between student and instructor, and a solid foundation in the essential drawing skills and commands needed to produce quality technical illustrations for publications. You will learn how to open, save, and close new and existing documents, project geometry from one plane to another, and learn how to use the perspective and isometric tools. You will also learn how to automate the creation of technical illustrations from existing 3-D CAD data. You will also learn how to draw and view entities, understand 3-D projections, moves, and rotation, and how to use the Objects window. Finally, you will learn about the new features available in Arbortext IsoDraw 7.0.

Prerequisites

- Basic computer skills in a Microsoft Windows computing environment.
- Background or related experience in an Engineering or Technical Publications Department.

Audience

This course is intended for:

- Authors, editors, and illustrators of technical information.
- Technical and administrative staff.
- Individuals and organizations evaluating Arbortext IsoDraw.

Topics

- Basic Manipulation Exercises
 - Transformation Tools
 - Advanced Tools
 - Understanding the Computer Graphics Metafile (CGM)
 - Creating Templates
 - New Features
 - Object Information for Assemblies
 - Drawing and View Entities
 - Several Drawings and Views
 - Selecting Automatic Best View
 - Ignore Invisible Elements
 - IGES Options
 - Selecting Assemblies
 - Selecting of Structures
-

- Referenced Components
 - Smooth Surface Accuracy
 - Create Border Lines
 - 3-D Projections
 - 3-D Move
 - 3-D Rotation
 - Direct Selection Cursor
 - 3-D Axis Selector
 - 3-D Cutting Tool
 - 3-D Transparency
 - Creation of a Gasket
 - The Objects Window
 - New Features: File formats, Animation, Browser Window
-

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| Module 1 | Basic Manipulation |
| Module 2 | Transformation Tools |
| Module 3 | Advanced Tools |
| Module 4 | Understanding the Computer Graphics Metafile (CGM) |
| Module 5 | Creating a Template |
| Module 6 | New Features |
| Module 7 | Object Information for Assemblies |
| Module 8 | Drawing and View Entities |
| Module 9 | Several Drawings and Views |
| Module 10 | Selecting Automatic Best View |
| Module 11 | Ignore Invisible Elements |
| Module 12 | IGES Import Options |
| Module 13 | Selecting Assemblies |
| Module 14 | Selection of Structures |
| Module 15 | Referenced Components |
| Module 16 | Smooth Surface Accuracy |
| Module 17 | Create Border Lines |
| Module 18 | 3-D Projections |
| Module 19 | 3-D Move |
| Module 20 | 3-D Rotation |
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| Module 24 | 3-D Transparency |
| Module 25 | Exercise |
| Module 26 | Creation of a Gasket |
| Module 27 | The Objects Window |
