



Autodesk Inventor: iLogic

Course Length: 2 Days

The Autodesk Inventor iLogic training course teaches you how to use the iLogic functionality that exists in Autodesk Inventor. In this practice-intensive curriculum, you will acquire the knowledge required to use iLogic to automate Autodesk Inventor designs.

In this course, you will learn how iLogic functionality furthers the use of parameters in a model by adding an additional layer of intelligence. By setting criteria in the form of established rules, you learn how to capture design intent, enabling you to automate the design workflow to meet various design scenarios in part, assembly, and drawing files.

Topics Covered:

- iLogic functionality overview.
- iLogic workflow overview.
- Review of model and user-defined parameters, and equations and their importance in iLogic.
- Understanding the iLogic interface components (iLogic panel, Edit Rule dialog box, and iLogic browser).
- Rule creation workflow for Autodesk Inventor parts and assemblies.
- Using variations of conditional statements in an iLogic rule.
- Accessing and incorporating the various function types into an iLogic part, assembly, or drawing file rule.
- Event Triggers and iTriggers.
- Creating Forms to create a custom user interface for an iLogic rule.

Course description shown for Autodesk Inventor 2022. Topics, curriculum, and/or prerequisites may change depending on software version.

Prerequisites:

The class assumes a mastery of Autodesk Inventor basics, as taught in the Autodesk Inventor: Introduction to Solid Modeling course. The Autodesk Inventor: Advanced Part and Assembly Modeling courses are also highly recommended.

No programming knowledge is required to use the basic iLogic functions, but programming experience can be an asset when using advanced functions.

Learning Guide Contents

Chapter 1: Introduction to iLogic

- 1.1 Design Automation Overview
- 1.2 iLogic Overview
- 1.3 iLogic Workflow

Chapter 2: Understanding Parameters and Equations in iLogic

- 2.1 Equations in iLogic
- 2.2 Model and User Parameters in iLogic

Chapter 3: Getting Started with iLogic

- 3.1 iLogic Interface
- 3.2 Function Overview
- 3.3 Rule Creation Workflow

Chapter 4: Rule Creation

- 4.1 Conditional Statements
- 4.2 Operators
- 4.3 Parameter Functions
- 4.4 Feature Functions
- 4.5 iProperty Functions

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Chapter 5: Assembly Rules and Functions

- 5.1 Assembly Rules
- 5.2 Component Functions
- 5.3 Relationship Functions
- 5.4 iLogic Components in Inventor Assemblies

Chapter 6: Drawing Rules and Functions

- 6.1 Drawing Rules
- 6.2 Sheet Functions
- 6.3 Title Block Functions
- 6.4 View Functions
- 6.5 Annotation Functions
- 6.6 Advanced Functions

Chapter 7: Rule Triggering and Form Creation

- 7.1 Event Triggers
- 7.2 iTriggers
- 7.3 Forms

Chapter 8: Miscellaneous Features and Functions

- 8.1 Rule Options
- 8.2 Search and Replace
- 8.3 Wizards
- 8.4 Miscellaneous Functions

Chapter 9: Project Practices

- 9.1 Introduction to Projects

Appendix A: iLogic Design Copy

- A.1 iLogic Design Copy

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Cancellation Policy

The following cancellation policy shall apply to all training engagements, LIVE Online, Consulting Services and Dedicated/Custom Training:

- Company reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Company, Customer is entitled to a full refund. Company shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.
- For Customer cancellations when written notice is received (i) at least ten (10) business days in advance of the class, the Customer is entitled to a full refund of its payment or reschedule enrollment, (ii) less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.
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