

Includes
Practice Exam Software

Autodesk®

Inventor® Certified User Exam Study Guide

Inventor® 2020 Edition



Thom Tremblay

Visit the following websites to learn more about this book:



amazon.com

Google books

BARNES&NOBLE

Table of Contents

Chapter 1 Potential Value of Certification	1
Why certify?	1
What do you receive?	2
Chapter 2 Preparing to Take the Exam	3
When will you be ready?	3
How much experience do I need?	3
User Certification objectives	4
User versus Professional	5
Is there a way to practice?	6
Appendix of this book	6
Autodesk Authorized Training Center (ATC)	6
How do I take the exam?	7
Find a certification center	7
Purchase and register	8
Tips for taking the exam	9
Start the software before beginning the exam	9
iProperties dialog	10
Be prepared to take notes	10
Mark and return to difficult question	11
Pause if you must	11
In case of a crash	11
The results of the exam	12
Retaking the exam	12
Additional resources	13
Chapter 3 What is Autodesk Inventor?	15
The Inventor Workflow	15
Getting started	16
Part Models	16
Assembly Models	18
Detail Drawings	19
Current Autodesk Inventor System Requirements	21

Autodesk Inventor Certified User Study Guide

Trial software access.....	23
Chapter 4: User Interface and Navigation objectives.....	25
Change the viewpoint using the ViewCube	26
Change settings of the ViewCube	27
Understand Inventor file types and standard templates.....	28
Chapter 5: Sketching Objectives	29
Apply dimensions to a sketch	29
Assign geometric constraints	31
Project geometry	33
Create and modify geometric shapes	34
Modify an Inventor model	35
Chapter 6: Part Modeling Objectives.....	37
Create extrude features.....	37
Create a pattern of features	38
Create a shell feature.....	40
Apply fillets and chamfers.....	41
Create hole features	43
Create revolve features	45
Place threads.....	46
Chapter 7: Browser Editing Objectives	47
Suppress and un-suppress part features	47
Toggle visibility of features and sketches	48
Chapter 8: Assembly Modeling Objectives	49
Ground base component of an assembly	49
Apply basic assembly constraints (mate, flush, insert, directed angle).....	50
Apply an offset to constrained parts	52
Determine the degrees of freedom of a component	52
Create a presentation model	52
Chapter 9: Drawing Objectives	55
Select and place a front view	55
Create a drawing view from an existing view	57
Add annotation and dimensioning to a drawing	57
Create a drawing view based on an assembly and presentation file	59

Add balloons to a drawing	59
Create and edit a parts list in a drawing	60
Add sheets to a drawing	61
Control sheet size and add a title block	61
Chapter 10: Practice Exam	63
Before taking the Practice Exam	63
About the practice exam.....	63
Preparing for the practice exam	64
Starting the practice exam.....	64
Your results	69
Summary	69
Appendix A: Practice Test	71
Appendix B: Practice Test Answers.....	77