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The AutoCAD® Mechanical 2015 Essentials training guide teaches students about the indispensable core topics required to use the AutoCAD® Mechanical software. Through a hands-on, practice-intensive curriculum, students acquire the knowledge needed to accelerate the mechanical design process.

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launch AutoCAD 2015. Opening an existing Drawing. This tutorial shows you how to add arcs and circles to the subdivision drawing provided with the datafiles that came with this guide. In Tutorial 3 you will finish the subdivision drawing so that the final drawing will look like Figure 2.1. Figure 2.1 . POND. N. 10. ECSTASY ROAD. CIRCLE. GARRET

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This training is designed for new users who require fundamental knowledge of AutoCAD Mechanical. The student will learn about the basic feature of AutoCAD Mechanical Drawing, Editing and Dimension tool. Topics covered include the Power commands, Drawing Border and Bill of Materials (BOM), Block Function Library and Mechanical Structure. There is heavy emphasis on the use of hands-on exercises.

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After learning AutoCAD from step 1-6, you should already be able to draw with AutoCAD. Now you need to get to be more productive. Remember, drawing with AutoCAD is not just about how fast you can finish the drawing. But your drawing also needs to

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be easy to be modified. Not only by you, but also by your team member.

## **A Simple Guide: 12 steps to Master AutoCAD | CADnotes**

Welcome to The Hitchhiker's Guide to AutoCAD Basics—your guide to the basic 42 commands you need to create 2D drawings using AutoCAD or AutoCAD LT. This guide is a great place to get started if you just completed your initial training, or to refresh your memory if you use AutoCAD only occasionally. The 42 commands are grouped together according to types of activity, and are arranged to follow a general workflow.

## **The Hitchhiker's Guide to AutoCAD Basics | AutoCAD ...**

Course Description. AutoCAD Mechanical The Complete Guide is

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designed to give you a solid understanding of AutoCAD Mechanical features and capabilities from the basics through to advanced components. Every course is designed to use all learning styles from the text, audio, video, interactivity, quizzes and practical Let Me Try examples.

## **AutoCAD Mechanical The Complete Guide - Global eTraining**

The best way of learning this extremely powerful software is to attend an AutoCAD mechanical training course. As well as a whole host of enhancements to AutoCAD's already powerful drawing tools AutoCAD mechanical takes productivity one step further for mechanical cad users by introducing automated geometry creation, semi automated drafting and validation tools that can shave hours of traditional 2D drafting times.

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## **AutoCAD Mechanical Training|2D Mechanical AutoCAD Courses**

Our AutoCAD Mechanical course teaches the key commands and techniques for professional 2D mechanical design and drafting using AutoCAD Mechanical. AutoCAD Mechanical training is arranged on-request, i.e. one-to-one training or a ‘closed course’ for your group. We can provide your training in-class at one of our centres, at your venue, or online.

### **AutoCAD Mechanical training at Autodesk-approved centre**

Autocad Starter Course 2015 - Tutorial for beginners - First learn lesson 01 HDmr121brian121learncourseautocadbeginners

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Tutorial Guide to AutoCAD 2015 provides a step-by-step introduction to AutoCAD with commands presented in the context of each tutorial. In fifteen clear and comprehensive chapters, author Shawna Lockhart guides readers through all the important commands and techniques in AutoCAD 2015, from 2D drawing to solid modeling and finally finishing with rendering. In each lesson, the author provides step-by-step instructions with frequent illustrations showing exactly what appears on the AutoCAD screen. Later, individual steps are no longer provided, and readers are asked to apply what they've learned by completing sequences on their own. A carefully developed pedagogy reinforces this cumulative-learning approach and supports readers in becoming skilled

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AutoCAD users. Tutorial Guide to AutoCAD 2015 begins with three Getting Started chapters that include information to get readers of all levels prepared for the tutorials. The author includes tips that offer suggestions and warnings as you progress through the tutorials. Key Terms and Key Commands are listed at the end of each chapter to recap important topics and commands learned in each tutorial. Also, a glossary of terms and Commands Summary list the key commands used in the tutorials. Each chapter concludes with end of chapter problems providing challenges to a range of abilities in mechanical, electrical, and civil engineering as well as architectural problems.

This book will teach you everything you need to know to start using Autodesk Inventor 2015 with easy to understand, step-by-step

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tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design. An unassembled version of the same robot used throughout the book can be bundled with the book. No previous experience with Computer Aided Drafting (CAD) is needed since this book starts at an introductory level. The author begins by getting you familiar with the Inventor interface and its basic tools. You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi-view drawings. Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships. You will also become familiar with many of Inventor's powerful tools and commands that enable you to easily



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construct complex features in your models. Also included is coverage of gears, gear trains and spur gear creation using Autodesk Inventor. This book continues by examining the different mechanisms commonly used in walking robots. You will learn the basic types of planar four-bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages. Using the knowledge you gained about linkages and mechanism, you will learn how to modify your robot and change its behavior by modifying or creating new parts. In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis. You will finish off your project by creating 3D animations of your robot in action. There are many books that show you how to perform individual tasks with Autodesk

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Inventor, but this book takes you through an entire project and shows you the complete engineering process. By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA® Mechanical Tiger and can start building your own robot.

Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and show how they can be used in design, both separately and in combination with each other. What you'll learn How to create and dimension 2D multiview drawings using AutoCAD How to freehand sketch using axonometric, oblique and perspective projection techniques How to

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create 3D parametric models and 2D multiview drawings using Autodesk Inventor How to reuse design information between AutoCAD and Autodesk Inventor How to combine parts into assemblies including assembly modeling with a LEGO® MINDSTORMS® Education Base Set with TETRIX® kit and a VEX Robot Kit How to perform basic finite element stress analysis using Inventor Stress Analysis Module Who this book is for This book is designed for high school and college age students wanting to learn the fundamentals of computer aided design with AutoCAD and Inventor and how the two can be used together. No prior CAD experience is required.

Parametric Modeling with Autodesk Inventor 2015 contains a series of sixteen tutorial style lessons designed to introduce Autodesk

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Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the import parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2015 Certified User Examination.

Designed to provide an insight into the Mechanical Design concept  
DESCRIPTION The book promises to make you understand and practice the SolidWorks framework. The aim of this book is to take you on a journey to all the phases of SolidWorks. SolidWorks is an innovative, next-generation industry software that allows you to

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solve and understand the designing and mechanical problems. SolidWorks uses a technical implementation approach for sketching, surfacing, and sheet metal drafting in an incremental and easy way. The main objective of this book is to make the reader understand the concepts of design based on practical knowledge rather than theoretical knowledge. **KEY FEATURES** Each command is explained in a simple and understandable manner Step-by-step explanation Practical knowledge rather than theoretical knowledge Covers all the modules of SolidWorks 2019 **WHAT WILL YOU LEARN** SolidWorks and its GUI Sketches (Line, Rectangle, Slot, Circle, ARC, Polygon, and Spline) Extrude, Revolved, Swept, Loft, Boundary, Fillet, and Chamfer) Surface (Extruded, Revolved, Swept, Lofted, Boundary, Filled, and Planner) Sheet metal (Base flange/tab, Edge flange, Miter flange, and Hem)

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Weldments (Structural member, Trim/Extend, End cap, and Gusset)  
Curves Mold design Drafting Assembly WHO THIS BOOK IS  
FOR Mechanical engineers and designers, automobile engineers,  
product designers, heavy vehicle designers. Table of Contents ?1.  
Introduction and Overview 2. Sketch 3. Features 4. Surface 5. Sheet  
Metal 6. Weldments 7. Curves 8. Mold Design 9. Assembly 10.  
Drafting

Technical Drawing 101 covers topics ranging from the most basic, such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5-2009 Dimensioning and

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Tolerancing standard. But un-like the massive technical drawing reference texts on the market, Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty, and assimilated by students, in one semester. Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal. The authors have also created extensive video training (101 videos, nearly 11 hours total) that is included with every copy of the book. In these videos the authors start of by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's tools and commands. The videos progress to more advanced topics where the authors walk students through completing several of the projects in the book. The CAD portion of the text incorporates drafting theory whenever possible and covers

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the basics of drawing setup (units, limits, and layers), the tools of the Draw, Modify, and Dimension toolbars, and the fundamentals of 3D modeling. By focusing on the fundamental building blocks of CAD, Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques (paper space, viewports, xrefs, annotative scaling, etc.) in intermediate CAD courses. In recognition of the diverse career interests of our students, Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project. We include architectural drawing because our experience has shown that many (if not most) first-semester drafting students are interested in careers in the architectural design field, and that a traditional technical drawing text, which focuses solely on mechanical drawing projects,



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holds little interest for these students. The multidisciplinary approach of this text and its supporting materials is intended to broaden the appeal of the curriculum and increase student interest and, it is hoped, future enrollments.

This book will teach you everything you need to know to start using Autodesk Inventor 2016 with easy to understand, step-by-step tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design. An unassembled version of the same robot used throughout the book can be bundled with the book. No previous experience with Computer Aided Design(CAD) is needed since this book starts at an introductory level. The author begins by getting

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you familiar with the Inventor interface and its basic tools. You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi-view drawings. Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships. You will also become familiar with many of Inventor's powerful tools and commands that enable you to easily construct complex features in your models. Also included is coverage of gears, gear trains and spur gear creation using Autodesk Inventor. This book continues by examining the different mechanisms commonly used in walking robots. You will learn the basic types of planar four-bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages. Using the

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knowledge you gained about linkages and mechanism, you will learn how to modify your robot and change its behavior by modifying or creating new parts. In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis. You will finish off your project by creating 3D animations of your robot in action. There are many books that show you how to perform individual tasks with Autodesk Inventor, but this book takes you through an entire project and shows you the complete engineering process. By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA® Mechanical Tiger and can start building your own robot.

The primary goal of AutoCAD 2015 Tutorial - First Level: 2D

*Page 27/30*

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Fundamentals is to introduce the aspects of Computer Aided Design and Drafting (CADD). This text is intended to be used as a training guide for students and professionals. This text covers AutoCAD 2015 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings. The lessons are further reinforced by the video presentations found on the enclosed multimedia disc. This textbook contains a series of eleven tutorial style lessons designed to introduce beginning CAD users to AutoCAD 2015. It takes a hands-on, exercise-intensive approach to all the important 2D CAD techniques and concepts. This text is also helpful to AutoCAD users upgrading from a previous release of the software. The new improvements and key enhancements of the software are incorporated into the lessons. The 2D-CAD techniques and concepts discussed in this text are also

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designed to serve as the foundation to the more advanced parametric feature-based CAD packages such as Autodesk Inventor. The basic premise of this book is that the more designs you create using AutoCAD 2015, the better you learn the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons. This book is intended to help readers establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering.

AutoCAD 2015 For Beginners is written to help a complete novice to learn AutoCAD Basics. The Author guides readers to create 2D drawings and 3D models with the help of brief explanations and step-by-step examples. This book starts with the introduction to Microsoft Windows-based user interface, 2D drawings, organizing

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and reusing data, plotting, and 3D modeling. In addition, there is a separate chapter on 2D Architectural drawings. Table of Contents 1. Introduction to AutoCAD 2. Drawing Basics 3. Drawing Aids 4. Editing Tools 5. Multi View Drawings 6. Dimensions and Annotations 7. Parametric Tools 8. Section Views 9. Blocks, Attributes and Xrefs 10. Layouts & Annotative Objects 11. Templates and Plotting 12. 3D Modeling Basics 13. Solid Editing & generating 2D views 14. Creating Architectural Drawings

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