

UNIT 6: BASIC CONCEPTS OF TECHNICAL DRAFTING, ILLUSTRATION, 2D ANIMATION AND MEDICAL TRANSCRIPTION

A. TECHNICAL DRAFTING CONCEPTS

What is Drafting?

Drafting – also called technical drawing – is the process of creating accurate representations of buildings, houses, or objects for architectural, engineering or technical purposes. This work is done by a person called a draftsman or drafts person, or, less commonly, a building drafter, drafting officer or building designer.

Technical drawing can be defined as the elaborate graphic representation of an object, concept, or idea through a universal language or code of practice that uses scales, graphic symbols, dimensions, and perspectives, with the aid of either drawing equipment/tools, freehand, or computer-aided design (CAD).

Technical drawing is used in many professions (engineering, architecture, manufacturing, construction, estate management, etc.) to draw or draft ideas and different views of physical objects like drainages, culverts, septic tanks, incinerators, houses, etc. Drawing—either artistic or technical—is one of the oldest forms of communication and is believed to be older than verbal communication. Generally, there are two types of drawings: artistic drawing, and technical drawing:

Artistic drawing

Artistic drawing is the type of drawing that is abstract because its meaning is in most cases unique to its creator or the person/artist who creates it. In order to understand the meaning of an artistic drawing, one has to understand the artist's point of view or motivation for producing a particular artistic drawing.

Sometimes, it is necessary to understand an artist in order to understand their artistic drawing because artists often take a unique/abstract approach when communicating through their drawings. This type of approach gives rise to various interpretations when their drawings are exposed to public view.

Regardless of how complex artistic drawings may appear, they express the clear feelings, beliefs, philosophies, and ideas of the artists who create them. Artistic drawings are generally freehand drawings or drawings created without the use of drawing instruments/tools.

Technical drawing

Technical drawing, on the other hand, is the type of drawing that is not abstract because everyone who uses it, understands it, owing to the obvious fact that universally or widely accepted drawing instruments/tools must be employed in creating it (i.e., the drawing). In order to understand a technical drawing, one does not necessarily have to understand what its creator has in mind; rather, one needs to have a good understanding of the symbols, perspectives, scales, and universally accepted tools, codes, and conventions that are used in creating or producing technical drawings.

D30 Tech Drawing Basic Concepts Drafting Cad Video Package

**Ashleigh Congdon-Fuller, Douglas
Smith, Antonio Ramirez**



D30 Tech Drawing Basic Concepts Drafting Cad Video Package:

Create Multiview Drawings Bergwall Productions Inc.,1998-10-01 Designed to be a fundamentals program applicable to students creating drawings either manually and or with a CAD program This program covers basic elements of technical drawing common to both manual drafting and CAD Examples from both architectural and mechanical disciplines are shown throughout the program **Lines and Scales** Bergwall Productions Inc.,1998-10-01 Designed to be a fundamentals

program applicable to students creating drawings either manually and or with a CAD program This program covers basic elements of technical drawing common to both manual drafting and CAD Examples from both architectural and mechanical disciplines are shown throughout the program Technical Drawing 101 with AutoCAD 2025 Ashleigh

Congdon-Fuller,Douglas Smith,Antonio Ramirez,2024-07 Blends technical drawing and an introduction to AutoCAD 2025 Includes mechanical architectural civil and electronic projects Extensive library of video instruction included with each book Drafting theory is incorporated throughout the text Designed to be used in a single semester instructor led course Each chapter contains key terms unit summaries review questions and drawing projects This edition features new chapters covering civil and electrical drafting A lot rides on your choice of technical drawing textbook it could be the gateway leading students to a rewarding career or the foundation for an introductory class that fuels interest in a whole program Technical Drawing 101 with AutoCAD 2025 is both More than a traditional technical drawing textbook it uniquely teaches both the theory and fundamentals of technical drawing and the basics of AutoCAD It covers topics ranging from the most basic such as making freehand multi view sketches of machine parts to the advanced such as creating an AutoCAD dimension style containing the style settings defined by the ASME Y14 5 2009 Dimensioning and Tolerancing standard But unlike the massive technical drawing reference texts on the market Technical Drawing 101 with AutoCAD presents just the right mix of information and projects for an introductory one semester course including all the supporting materials needed by students and faculty The authors distilled all the knowledge and experience gleaned from designing a successful AutoCAD program into this textbook to deliver the best training possible to students Step by step activities exercises and projects interest and challenge learners Technical Drawing 101 with AutoCAD begins with technical and multi view drawing basics The CAD portion of the text incorporates drafting theory whenever possible and covers 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 with AutoCAD provides a solid foundation for students going on to learn advanced CAD concepts and techniques xrefs annotative scaling etc in intermediate CAD courses The included mechanical and architectural projects as well as new chapters on civil drafting and electronic drafting allow students to explore these possible career paths with the perfect amount of background information and designing tasks Supplemental Materials The Technical Drawing 101 with AutoCAD textbook and included student and instructor materials are a complete

semester's curriculum. Instructors receive an instructor's manual, lecture materials, check prints of AutoCAD dwg files, prototype drawings for assignments, a syllabus, tests, quizzes, answer keys, and sketching and traditional drafting files in doc and PDF format. With the textbook, students gain access to an extensive library of video tutorials. They also receive AutoCAD prototype drawings for each CAD assignment, lettering practice sheets, and multi-view sketching grid sheets in PDF format.

Broad Appeal Students taking introductory technical drawing classes usually have diverse career interests. Traditional technical drawing texts, which focus solely on mechanical drawing projects, hold little interest for these students. So *Technical Drawing 101 with AutoCAD* includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project. Learners will master these topics with the same clear instruction and step-by-step process that is featured in the rest of the textbook. The newly added chapter on civil drafting touches on types of civil drawings, civil bearings, courses and units, and concludes with a mortgage survey project. Another brand new chapter on electrical and electronics drafting explains the types of working drawings and graphics found in this field: circuits, symbols, and components, and schematic diagrams, followed by an FM tuner project. The inclusion of these chapters helps capture the interest of more students while adding even more multidisciplinary appeal to the text.

Video Tutorials The video tutorials that are included with this textbook are designed to get students comfortable with the user interface and demonstrate how to use many of AutoCAD's commands and features. The videos progress to more advanced topics that walk students through completing several of the projects in the book. Icons throughout the book alert learners to times when they should access downloads and videos.

[Technical Drawing 101 with AutoCAD 2018](#) Ashleigh Fuller, Antonio Ramirez, Douglas Smith, 2017-06

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 Tolerancing standard. But unlike 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: 120 videos, 15 hours total, that is included with every copy of the book. In these videos, the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. 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 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

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Technical Drawing 101 with AutoCAD 2022 Ashleigh Congdon-Fuller, Antonio Ramirez, Douglas Smith, 2021-07 Blends technical drawing and an introduction to AutoCAD 2022 Covers both mechanical and architectural projects Twenty six hours of video instruction is included with each book Drafting theory is incorporated throughout the text Designed to be used in a single semester instructor led course Each chapter contains key terms unit summaries review questions and drawing projects 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 Tolerancing standard But unlike 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 176 videos 26 hours total that is included with every copy of the book In these videos the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features 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 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 holds little interest for these students The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of the curriculum and increase student interest and it is hoped future enrollments

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Technical Drawing 101 with AutoCAD 2020 Ashleigh Fuller, Antonio Ramirez, Douglas

Smith, 2019-06. 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 Tolerancing standard. But unlike 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: 120 videos, 17 hours total, that is included with every copy of the book. In these videos, the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. 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 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

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D30-M Tech Drawing Bergwall Productions Inc., Thomson Delmar Learning, 1998-10-01 Designed to be a fundamentals program applicable to students creating drawings either manually and or with a CAD program This program covers basic elements of technical drawing common to both

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Technical Drawing 101 with AutoCAD 2019 Ashleigh Fuller, Douglas W. Smith, Antonio M. Ramirez, 2018 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 Tolerancing standard. But unlike 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: 120 videos, 15 hours total, that is included with every copy of the book. In these videos, the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. The videos progress to more advanced topics where the authors walk students

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Engineering Drawing and Design Video Delmar, Delmar Learning, 2001-12-01 Begins with an introduction to the design process from steps required to produce an effective design through how design and drafting fits into the manufacturing process

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Engineering Graphics Essentials with AutoCAD 2025 Instruction Kirstie Plantenberg, 2024-06 Covers both engineering graphics and AutoCAD 2025 Each book includes videos audio lectures interactive quizzes and more Numerous exercises are used throughout the book to reinforce key concepts Includes hand sketching exercises Features extensive video instruction where the author guides you through every AutoCAD lesson in the book Engineering Graphics Essentials with AutoCAD 2025 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner It covers the main topics of engineering graphics including tolerancing and fasteners while also teaching students the fundamentals of AutoCAD 2025 This book features independent learning material containing supplemental content to further reinforce these principles Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures and it will give students a superior understanding of engineering graphics and AutoCAD The independent learning material allows students to go through the topics of the book independently The main content of the material contains pages that summarize the topics covered in the book Each page has voice over content that simulates a lecture environment There are also interactive examples that allow students to go through the instructor led and in class student exercises found in the book on their own Video tutorials of every AutoCAD lesson in the book as well as selected problems from the book are included to supplement the learning process Multimedia Content AutoCAD video tutorials of every lesson in the book includes closed captioning Videos demonstrating how to solve selected problems includes closed captioning Summary pages with audio lectures includes closed captioning Interactive

exercises and puzzles Supplemental problems and solutions Tutorial starter files **Technical Drawing** Frederick Ernest Giesecke, 2003 This book's practical well illustrated step by step explanations of procedures have successfully trained users for 60 years and continue to appeal to today's visually oriented users This book offers the best coverage of basic graphics principles and an unmatched set of fully machinable working drawings For professions that utilize the skills of engineering graphics technical drawing and drafting technical sketching

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