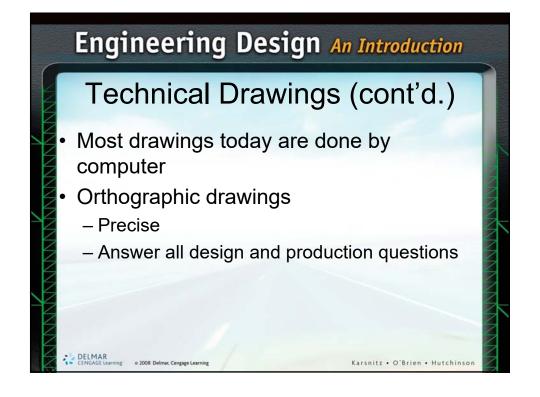
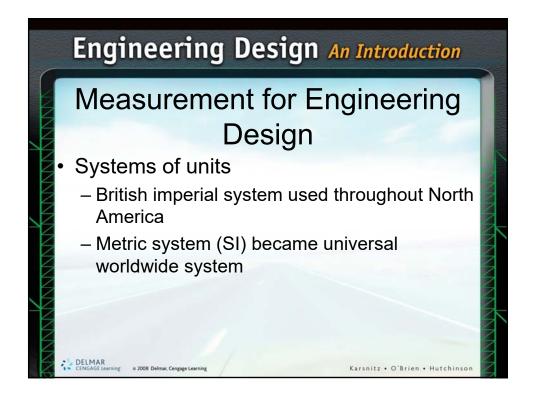
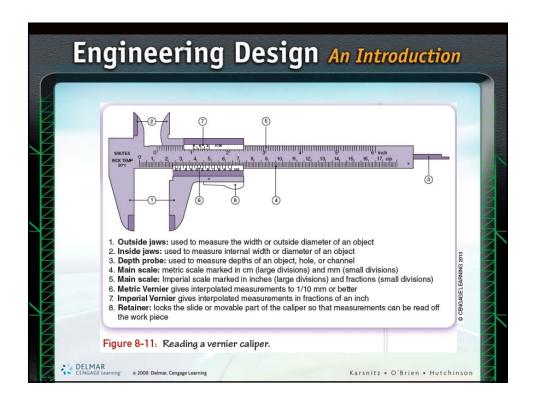
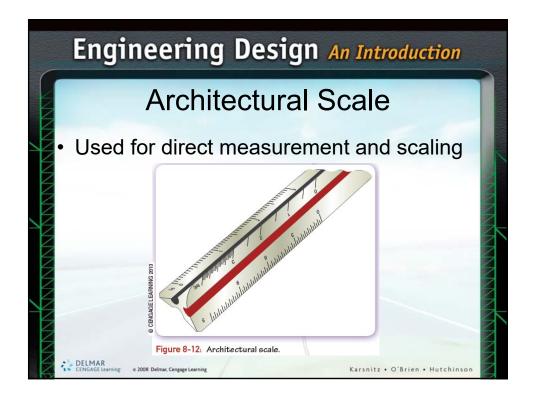


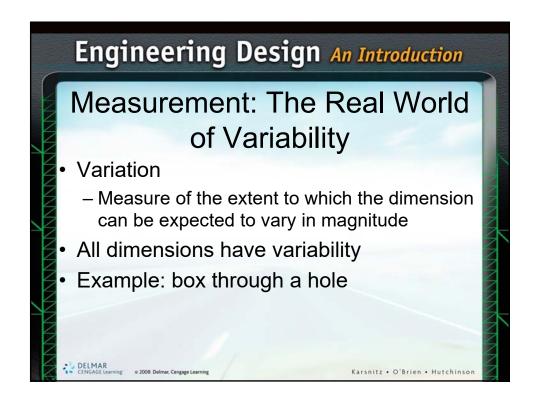
Engineering Design An Introduction Technical Drawings (cont'd.) Two views are all that is needed for some circular parts Some parts may need more than three views Interior structure not perpendicular to one of the normal planes

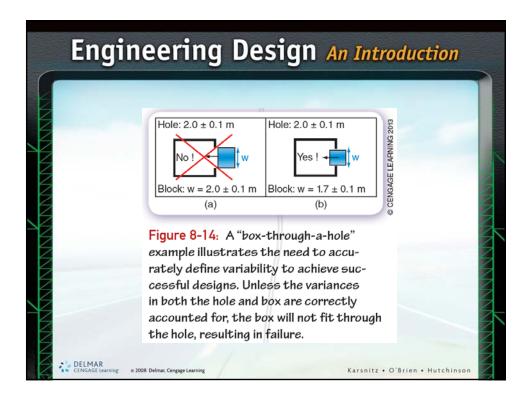


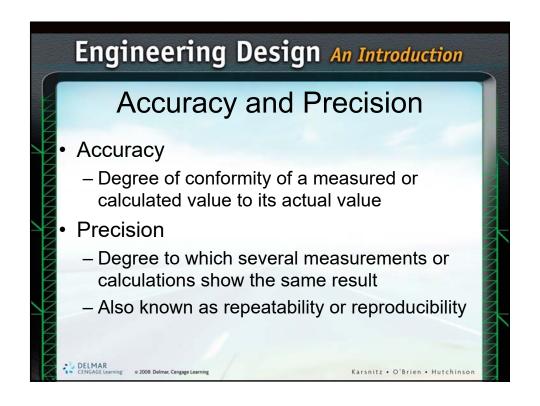


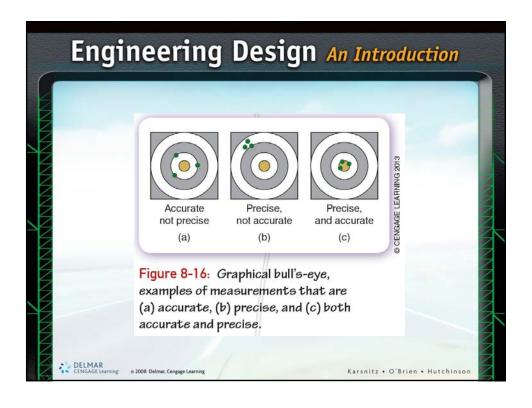


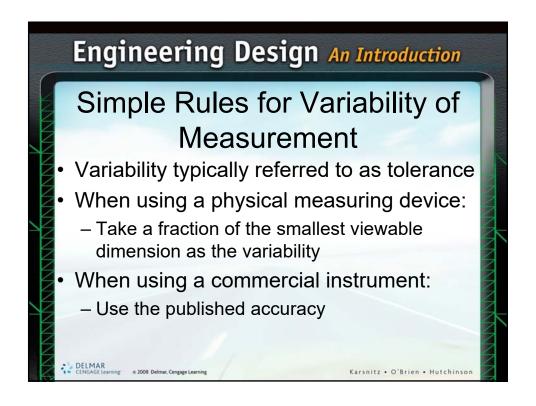


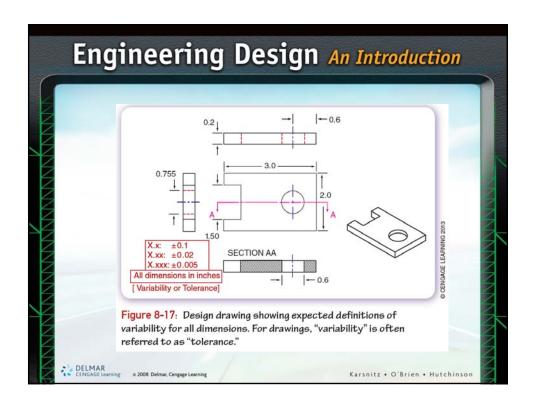




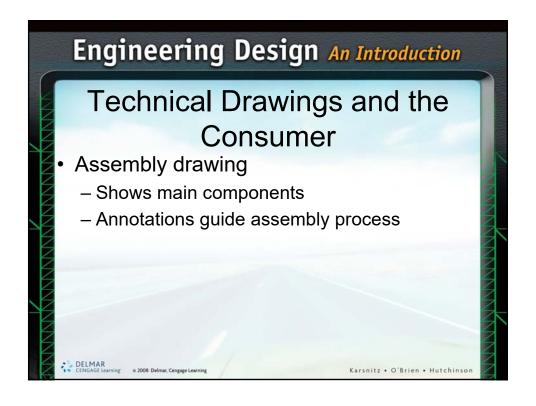


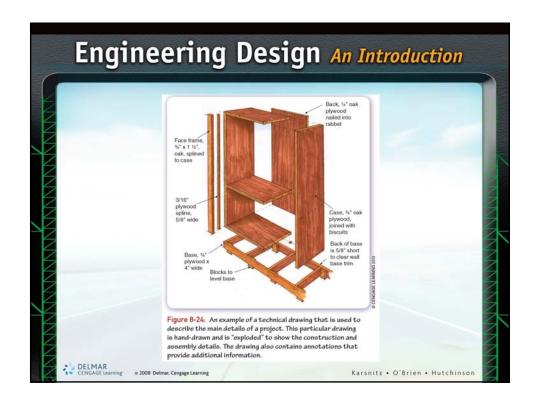




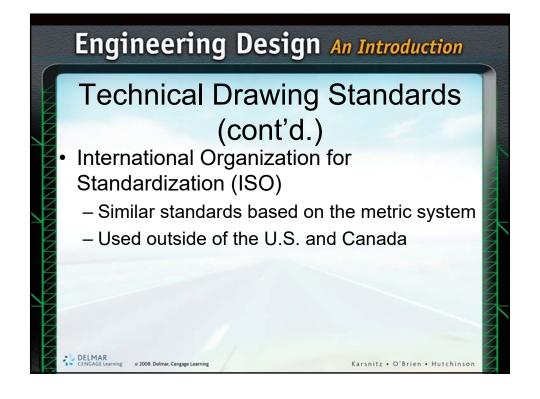




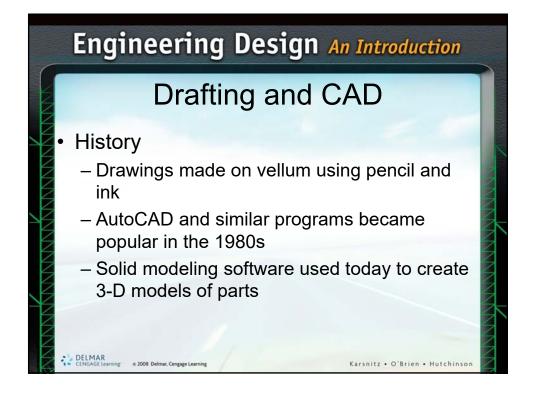


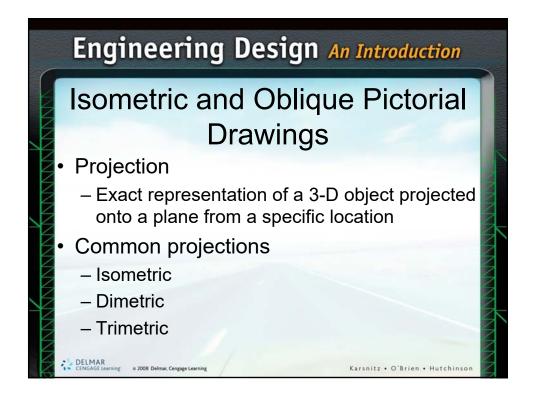


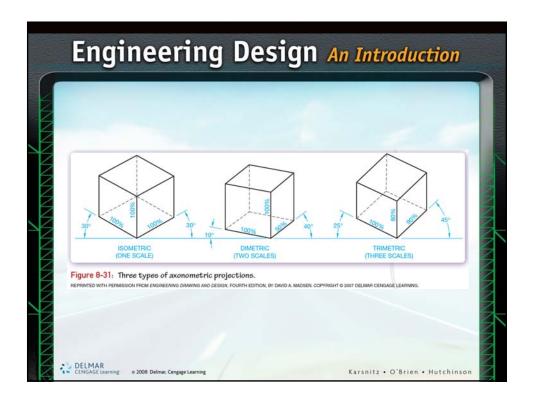
Engineering Design An Introduction Technical Drawing Standards Convention Refers to the way something is usually done American National Standards Institute (ANSI) Established standards for technical drawings Used in the U.S., Canada, and other countries

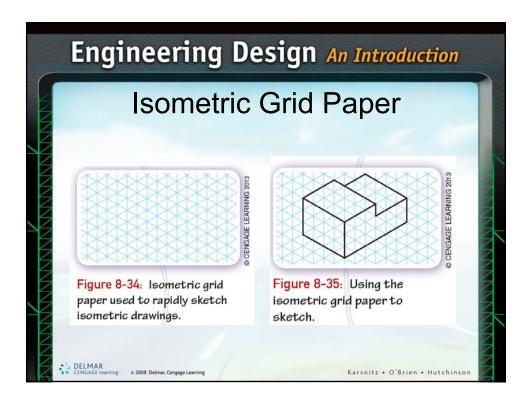


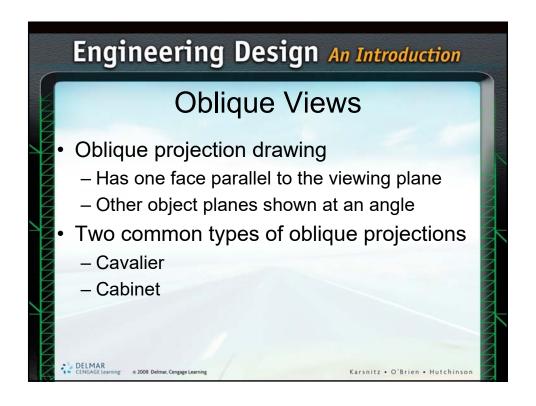
Technical Drawings and the Engineering Process Primary purpose of a technical drawing Communicate a solution between members of design and production teams Revision of drawings Draw



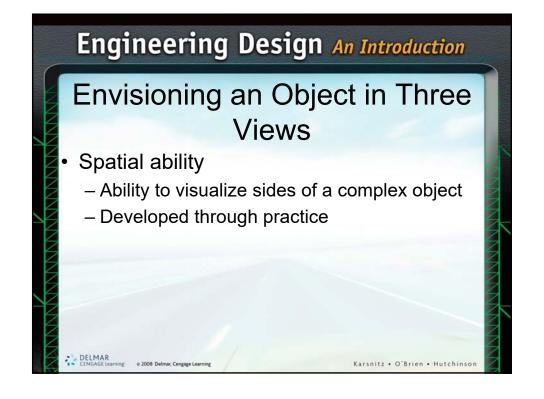


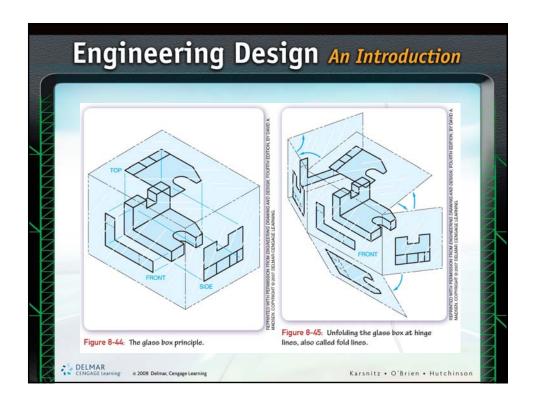


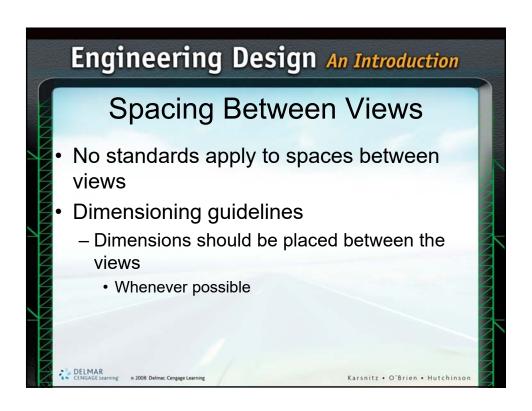




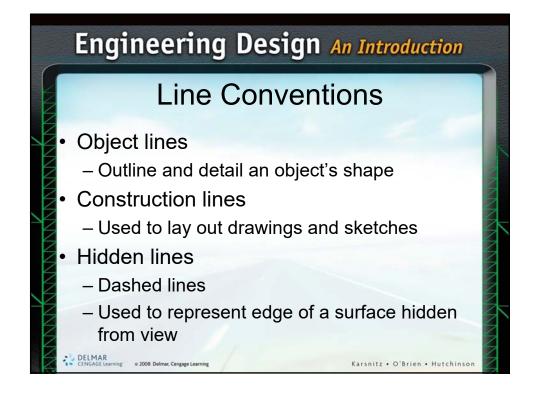
Engineering Design An Introduction Orthographic Drawing and Sketching • Arrangement of views - First-angle projection - Third-angle projection • Angle of projection - Refers to the arrangement of views in an orthographic drawing ► ELMAR • 2006 Delina, Cregapi Learing







Engineering Design An Introduction Scale Most objects cannot be drawn true to size Scale Indicates relationship between drawing and actual size Should be clearly marked in the title block



Engineering Design An Introduction Line Conventions (cont'd.) Centerlines - Used to identify the location of a hole or arc center Extension lines - Used to extend edges of an object so they may be located with dimension lines Dimension lines - Used to indicate size of an object or feature

Karsnitz . O'Brien . Hutchinson

Engineering Design An Introduction Section Views • Provides view of an object as if it were cut by a saw • Cutting plane line — Located in the top view — Represents the location of the cutting plane passing through the object

DELMAR

