

## 21<sup>st</sup> Century Instructional Guide for Career Technical Education

### Mechanical Drafting Engineering and Technical Cluster Drafting Concentration

<b>Title:</b>	<b>Mechanical Drafting (WEVIS 1725)</b>	
<b>Standard Number:</b> ET.S.MECH.1	<b>Advanced Dimensioning Techniques</b> Students will apply proper advanced dimensioning techniques using tolerancing and fit selection to mechanical drawings.	
<b>Essential Questions:</b>	<b>How are tolerancing and fits used in mechanical drafting?</b>	
<b>Objectives:</b>	<b>Students will</b>	<b>Learning Plan &amp; Notes to Instructor:</b>
ET.O.MECH.1.1	apply tolerance dimensions.	Apply limit dimensions and allowances.  What do the two numbers of a limit dimension mean? a. actual size <b>b. maximum and minimum size</b> c. nominal size d. basic size
ET.O.MECH.1.2	use basic GD&T symbols.	Identify and apply basic geometric dimensioning and tolerancing (GD&T) symbols.  Include finish marks, straightness, flatness, roundness/circularity, angularity, perpendicularity, parallelism, position, and concentricity datums, datum symbols, and feature control frames.  What is the purpose of a feature control frame? a. to establish a datum b. to define a finish mark <b>c. to relate a geometric tolerance to a part feature</b> d. d. to hold a picture.
ET.O.MECH.1.3	examine the basic principles of fit selection.	Calculate clearance fit, interference fit and transition fit.

# Mechanical Drafting Study Guide

**Kathleen Armour**



## **Mechanical Drafting Study Guide:**

## Decoding **Mechanical Drafting Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mechanical Drafting Study Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

<https://staging.conocer.cide.edu/About/browse/fetch.php/Elements%20Of%20Soil%20Mechanics.pdf>

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