

_____SOUTH SEATTLE COMMUNITY COLLEGE_____

Technical Education Division

COURSE OUTLINE

Revision: Loc Nguyen - Date: February 2009

DEPARTMENT: Drafting Technology
CURRICULUM: Drafting
COURSE TITLE: Geometric Dimensions and Tolerancing
COURSE NUMBER: TDR 280
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 1 quarter
CREDIT HOURS: 4
LECTURE HOURS: 33
LAB HOURS: 22
CLASS SIZE: 18
PREREQUISITES: Concurrent TDR 125 or permission

COURSE DESCRIPTION:

Basic interpretation of geometric tolerances on engineering drawing. All studies are based on ANSI Y14.5M-1982.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Use communication skills to work effectively with co-workers.
2. Critical Thinking and Problem Solving - Use problem solving skills to interpret geometric symbols.
3. Personal Responsibility - Observe all appropriate safety procedures.
4. Information Literacy - Access and evaluate information from a variety of sources regarding tolerances.

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GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Read and interpret geometric symbols.
2. Explain the feature control frame.
3. Distinguish the differences between the various types of tolerances.

TOPICAL OUTLINE:

APPROX. HOURS

I.	Feature control frame	7
II.	Form tolerances	8
III.	profile tolerances	8
IV.	Orientation tolerances	8
V.	Location tolerances	8
VI.	Run-out tolerances	8
VII.	Projected tolerance zone	<u>8</u>
	Total	55

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