

_____ SOUTH SEATTLE COMMUNITY COLLEGE _____
Technical Education Division

COURSE OUTLINE

Revision: Rodger Squirrell July 14, 2009

DEPARTMENT: Manufacturing Technology
CURRICULUM: Welding Fabrication Technology
COURSE TITLE: Punching & Shearing
COURSE NUMBER: WFT 126
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 1 Quarter
CREDIT HOURS: 3
LECTURE HOURS: 11
LAB HOURS: 44
CLASS SIZE: 25
PREREQUISITES: WFT 101 (Use of Power Tools in Metal Fab.),
WFT 105 (Use of Blueprints in Welding Fab.),
WFT 106 (Basic Layout Skills) or
instructor's permission

COURSE DESCRIPTION:

Mostly lab exercises in the setup and use of the power shear and punch to make weldment parts in a fabrication setting. Alternative methods of cutting are also explored. Industry visitations are necessary to become acquainted with numeric control and production cutting devices and systems.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations - Use social interactive skills to work in groups, as assigned, to complete minimum skill requirements.
- WFT 126 Punching and Shearing

January 20, 2003

STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

2. Personal Responsibility - Take responsibility for meeting deadlines as assigned. Demonstrating safe shop practices. Take pride in one's own workmanship and customer etiquette, per industry standards.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will be able to:

1. Identify the parts of the squaring shear, throatless shear, power "nibbler", plate shear, Whitney and Rotex punch, and "Ironworker" multi shear
2. Demonstrate adjustment techniques on shears and punches
3. Perform routine maintenance on punches and shears
4. Construct gauge locating devices for production shearing and punching

TOPICAL OUTLINE	APPROX. HOURS
I. Nature of shearing and shearing and punching tools	3
II. Techniques for shear and punch use	24
III. Shear and punch maintenance	10
IV. Production shearing	<u>18</u>
Total	55

Detailed Topical Outline is available separately

REVISED BY: John Todd
DATE: January 20, 2003