

\_\_\_\_\_ SOUTH SEATTLE COMMUNITY COLLEGE \_\_\_\_\_  
Technical Education Division

COURSE OUTLINE

Revision: Rodger Squirrell July 14, 2009

DEPARTMENT: Manufacturing Technology

CURRICULUM: Welding Fabrication Technology

COURSE TITLE: Use of Press Brake in Welding Fabrication

COURSE NUMBER: WFT 119

TYPE OF COURSE: Vocational Preparatory

COURSE LENGTH: 1 Quarter

CREDIT HOURS: 2

LECTURE HOURS: 11

LAB HOURS: 22

CLASS SIZE: 25

PREREQUISITES: Basic math skills, ability to read blueprints,  
(Prior fabrication experience is helpful) and,  
ability to lift 50 lbs., or instructor's permission

COURSE DESCRIPTION:

A study of the operating principles of press brake forming along with practical fabrication experiences using a press brake. Advantages, disadvantages, and limitations of the press brake are explored through construction of sample projects. This course involves industry visitation(s) to observe CNC production press brakes.

WFT 119 Use of Press Brake in Welding Fabrication  
January 20, 2003

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Personal Responsibility - Take responsibility for meeting deadlines as assigned. Take pride in demonstrating safe press brake procedure skills. Take pride in one's own workmanship and tool care and maintenance, per industry standards.
2. Human Relations - Use social interactive skills to work in groups, as assigned, to complete minimum skill requirements

GENERAL COURSE OBJECTIVES:

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

1. Identify the major parts of a press brake
2. Set up and adjust the press brake for a variety of forming operations
3. Fabricate simple custom press brake dies
4. Utilize the press brake in project fabrication following a specified design or a design of his/her own

TOPICAL OUTLINE	APPROX. HOURS
I. The bending of metal	8.0
II. Metal bending devices 4.5	
III. Parts of a press brake 4.5	
IV. Operation of a press brake	10.0
V. Fabrication design for press brake use	3.0
VI. Computer numerically controlled press brakes	3.0
Total	33.0

Detailed Topical Outline is available separately

REVISED BY: John Todd  
DATE: January 20, 2003