

\_\_\_\_\_ 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 Power Tools in Metal Fabrication  
COURSE NUMBER: WFT 101  
TYPE OF COURSE: Vocational Preparatory  
COURSE LENGTH: 1 Quarter  
CREDIT HOURS: 1  
LECTURE HOURS: 0  
LAB HOURS: 22  
CLASS SIZE: 25  
PREREQUISITES: Instructor's permission

#### COURSE DESCRIPTION:

A project-oriented set of practical exercises that conveys knowledge of, and practical exercises with, the use of both air- and electric-powered metal fabrication tools used for assembly, drilling, die cutting, polishing, deburring, grinding, chipping, sanding, sawing, shearing, punching, forming, and threading.

#### STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Communicate and work in groups to complete minimum skills activities

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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

2. Personal Responsibility - Demonstrate safe use of power tools as required for assigned activities. Demonstrate consistent quality workmanship and power tool care and maintenance per industry standards. Complete reading and written work as assigned.

GENERAL COURSE OBJECTIVES:

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

1. Recognize common power tools and their accessories
2. Demonstrate the proper care of power tools
3. Demonstrate the proper use of power tools in welding fabrication for fastener assembly, drilling, die cutting, polishing, deburring, grinding, chipping, sanding, sawing, shearing, punching, forming and threading
4. Perform assigned projects using power tools

TOPICAL OUTLINE

APPROX. HOURS

I.	Power tool identification	1
II.	Power tool safety	2
III.	Power tool maintenance	3
IV.	Setup & use of power tools	<u>16</u>
	Total	22

Detailed Topical Outline is available separately

REVISED BY: John Todd

DATE: January 19, 2003