

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

COURSE OUTLINE  
Revision: R. Squirrell July 14, 2009

|                 |  |
|-----------------|--|
| DEPARTMENT:     | Manufacturing Technology                 |
| CURRICULUM:     | Welding Fabrication Technology           |
| COURSE TITLE:   | Fabrication and Layout (Career Link)     |
| COURSE NUMBER:  | WFT 092                                  |
| TYPE OF COURSE: | Vocational Supplemental                  |
| COURSE LENGTH:  | 1 quarter                                |
| CREDIT HOURS:   | Variable 2 - 6                           |
| LECTURE HOURS:  | 10 - 20                                  |
| LAB HOURS:      | 20 - 80                                  |
| CLASS SIZE:     | 15                                       |
| PREREQUISITES:  | WFT 091 (Welding Processes Introduction) |

COURSE DESCRIPTION:

Introduction to basic blueprint reading and interpretation of fabrication details to simple production.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations - Communicate and work in groups to complete skill activities
2. Communication - Listen and follow directions accurately
3. Personal Responsibility - Demonstrate basic layout skills. Follow procedures for tools and equipment

WFT 092 Fabrication and Layout (Career Link)  
October 20, 1998

#### GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Interpret an orthographic projection
2. Use measurements and project planning to fabricate a workmanship sample
3. Prepare a working drawing and develop a materials list
4. Select the proper process, tools and equipment, and materials for the project
5. Fabricate a workmanship sample effectively using the materials and tools

#### TOPICAL OUTLINE:

#### APPROX. HOURS

- |   |                          |
|---|--------------------------|
| <ol style="list-style-type: none"> <li>I. Overview of course</li> <li>II. Review of safety and equipment</li> <li>III. Welding process review               <ol style="list-style-type: none"> <li>A. Oxygen acetylene welding applications</li> <li>B. Shielded metal arc welding</li> <li>C. Gas metal arc welding</li> <li>D. Gas tungsten arc welding</li> <li>E. Thermal cutting processes</li> </ol> </li> <li>IV. Fundamentals of blueprint reading</li> <li>V. Shop tools, equipment and safety procedures</li> <li>VI. Project applications</li> </ol> | Total hours are variable |
|---|--------------------------|

REVISED BY: Rodger Squirrel  
DATE: January 19, 2003