## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

| DEPT.  | WELD   | COURSE NUMBER: 1240             |  |  |  |  |
|--|--|---------------------------------|--|--|--|--|
| NUMB   | ER OF CREDITS: 2                                 | Lecture: 0 Lab: 2 OJT: 0        |  |  |  |  |
| Cours  | e Title:   |                                 |  |  |  |  |
| Gas Tur  | ngsten Arc Welding I                             |                                 |  |  |  |  |
| ~ . •  |  |                                 |  |  |  |  |
| Catalo   | og Description:                                  |                                 |  |  |  |  |
| Gas Tungsten Arc Welding I provides the student with a thorough technical understanding of Gas Tungsten Arc welding, welding safety, equipment and set-up, rod and shielding gas classifications and selection. It also provides training to develop the skills necessary to make quality gas tungsten arc welds on non-ferrous metals.  |  |                                 |  |  |  |  |
| Prerequisites or Necessary Entry Skills/Knowledge:   |  |                                 |  |  |  |  |
| None   |  |                                 |  |  |  |  |
| Goal 1: Communication: By meeting the following competencies:   Goal 2: Critical Thinking: By meeting the following competencies:   Goal 3: Natural Sciences: By meeting the following competencies:   Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:   Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:   Goal 6: The Humanities and Fine Arts: By meeting the following competencies:   Goal 7: Human Diversity: By meeting the following competencies:   Goal 8: Global Perspective: By meeting the following competencies:   Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:   Goal 10: People and the Environment: By meeting the following competencies: |  |                                 |  |  |  |  |
| _  | s to be Covered n the welding shop               |                                 |  |  |  |  |
|  | g joints and positions                           |                                 |  |  |  |  |
|  | l preparation                                    |                                 |  |  |  |  |
|  | ection and shielding gas                         |                                 |  |  |  |  |
|  | ngsten Arc Welding (GTAW) principles             |                                 |  |  |  |  |
|  | ngsten Arc Welding equipment, set-up, and suppli |                                 |  |  |  |  |
| Perform  | a quality welds using Gas Tungsten Arc Welding r | processes on non-ferrous metals |  |  |  |  |

| Is this course part of a transfer pathway:  | Yes | No | $\boxtimes$ |  |
|---|-----|----|-------------|--|
| *If yes, please list the competencies below |     |    |             |  |

Revised Date: 3/29/2022