MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

| DEPT. WELD | COURSE NUMBER: 1190 |
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| NUMBER OF CREDITS: 3 | Lecture: 1 Lab: 2 OJT: 0 |
| Course Title: | |
| Welding Principles | |
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| Catalog Description: | |
| Welding Principles provides the student with details of terminology, joint design, related areas of shop math, m drawings. | |
| Prerequisites or Necessary Entry Skills/Knov | vledge: |
| None | |
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| FULFILLS MN TRANSFER CURRICULUM applicable) □Goal 1: Communication: By meeting the following co □Goal 2: Critical Thinking: By meeting the following co □Goal 3: Natural Sciences: By meeting the following co □Goal 4: Mathematics/Logical Reasoning: By meeting to □Goal 5: History and the Social and Behavioral Science competencies: □Goal 6: The Humanities and Fine Arts: By meeting the □Goal 7: Human Diversity: By meeting the following co □Goal 8: Global Perspective: By meeting the following □Goal 9: Ethical and Civic Responsibility: By meeting the □Goal 10: People and the Environment: By meeting the | competencies: competencies: competencies: the following competencies: es: By meeting the following e following competencies: competencies: competencies: the following competencies: |
| Topics to be Covered | |
| Welding Safety Physics of Welding | |
| Welding joints and positions | |
| Weld terminology | |
| Oxy-fuel gas cutting equipment and supplies | |
| Plasma Arc cutting equipment and supplies | |
| Shielded Metal Arc Welding equipment and supplies | |
| Gas Metal Arc Welding equipment and supplies | |
| Gas Tungsten Arc Welding equipment and supplies | |

| Shop Math |
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| Technical drawings and sketches |
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| Student Learning Outcomes |
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| Recognize a safe work environment and the need for personal safety. |
| Describe welding terms and definitions. |
| Describe welding processes, equipment, and supplies required. |
| Apply shop math to welding. |
| Read and interpret welding drawings and sketches. |
| Demonstrate use of various measurement tools used in welding industry. |
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| Is this course part of a transfer pathway: Yes □ No ☒ |
| *If yes, please list the competencies below |

Revised Date: 3/29/2022