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| **Northern Wyoming Community College District** | |
| Sheridan College  3059 Coffeen Avenue  Sheridan, Wyoming 82801 | Gillette College  300 West Sinclair Street  Gillette, Wyoming 82718 |

**COMMON COURSE SYLLABUS**

WELD 1715 Thermal Cutting and Oxyfuel Welding (3 credits)

Welding Technology Department

Career and Technical Education Division

*Effective Date*: 4/19/13

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| *Description* | This course introduces students to different types of thermal cutting and oxyfuel welding and brazing processes currently used in the welding industry. Course training utilizes the American Welding Society (AWS) standards of acceptance. |
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| *Prerequisites* | None |
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| *Co-requisites* | None |
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| *Purpose (including degree requirement fulfilled)* | WELD 1715 Thermal Cutting and Oxyfuel Welding is required for the Welding Certificate and the Welding AAS programs. |
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| *Course Format* | Lecture and Lab |
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| *Grading (Letter or S/U)* | Letter |
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| *Program Outcome(s)* | Upon completion of WELD 1715 Thermal Cutting and Oxyfuel Welding, the student will:  1. perform quality welds and cuts to industry standards.  2. apply principles of welding theory to welding practice.  3. demonstrate proper use of welding related terms. |
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| *Minimum Student Competencies* | Upon completion of WELD 1715 Thermal Cutting and Oxyfuel Welding , the student will:  1. perform shielded metal arc cutting practices.  2. perform plasma cutting skills.  3. perform carbon arc cutting practices.  4. perform visual inspection of cuts and gouges.  5. perform proper equipment set up and adjustment.  6. perform all safety practices pertaining to thermal cutting and oxyfuel welding  and cutting, transportation and storage.  7. perform straight, curve, and bevel cuts and gouges with thermal and oxyfuel  cutting equipment  8. perform oxyfuel welding and brazing.  9. perform proper leak detection practices on oxyfuel equipment.  10. identify and explain the carbon arc cutting air (CAC-A) process and  equipment.  11. prepare the work area and CAC-A equipment for safe operation. |
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| *Texts/Materials* | Texts and/or authority reviewed materials that are selected by individual instructors with Director/Area Coordinator approval. |
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| *Minimum Course Requirements* | 1. Assignments 2. Assessments |
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| *Academic Honesty Statement* | Students are expected to maintain the highest standards of academic honesty and integrity. Academic honesty means performing all academic work without lying, cheating, deceit, plagiarism, misrepresentation, or unfairly gaining advantage over any other student. Violations of academic honesty are in violation of District standards for student conduct and shall result in disciplinary action. |
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| *Disability Statement* | ***Students with disabilities who believe they may need accommodations in this class must contact the disabilities services coordinator on their campus as soon as possible to request such accommodations.*** |