| 4/14/2024 □ | | RED COURSE IVE COURSE | | | | | | | | TEC | DIVISION NEW CO REVISION | URSE |
|--|---|--|---------|---|----------|---|---------------------------------|-----------------------------------|---------------|----------------|--------------------------------|---------------|
| | | | | Lake Land Co | olle | ege | | | | | | |
| | | | | Course Informatio | | _ | | | | | | |
| COURSE NUMBER: | , | WLD-053 TITLE (30 Characters Max): Shielded Metal Arc Welding III | | | | | | | | | | |
| | | | | | Lab: 4.0 | | ICCB Lab: 4 | | 4.0 | | | |
| Course Level: | | | | reer/Technical v Ed/ Not in Degree Audit | | Clinical Practicum: | 0.0 Work-based Learning: 0.0 | | 0.0 | WBL ECH: | 0.0 | |
| Course PCS & CIP: | | 12 - 48.0508 | | IAI Code | | N/ | 'A | Contact Hours (Minutes/Week) | | | eek) | |
| Repeatable (Y/N): | N | Pass/Fail (Y/N): | N | Variable Credit (Y/N): | N | Min: | Max: | | 16 Wks | 225 | 8 Wks | 450 |
| Prerequisites: | , | WLD-040 or WLDC-040, WLD | D-041 | or WLDC-041 and WLD-05 | 2 or \ | WLDC-052 | | | | | | |
| Corequisites: | | None | | | | | | | | | | |
| Catalog Description: (40 | | | | | | | | | | | | |
| Word Limit) | | In this course students are reca a guided bend test. | | · | ng sh | Contact Lecture | Conta | ct Lab | Clir | nical | Work | Based |
| Word Limit) | List | a guided bend test. | | · | ng sh | Contact Lecture Hours | Conta Ho | ct Lab urs | Clir | | Work | |
| Word Limit) Weld SMAW groove plate | List | a guided bend test. the Major Course Segment | | · | ng sh | Contact Lecture Hours | Conta Ho | ct Lab urs | Clir | nical | Work | Based |
| Weld SMAW groove plate Weld SMAW groove plate | List es flat p es horiz | a guided bend test. the Major Course Segment osition ontal position | | · | ng sh | Contact Lecture Hours 1.5 1.5 | Conta Ho | ct Lab urs | Clir | nical | Work | Based |
| Weld SMAW groove plate Weld SMAW groove plate Weld SMAW groove plate Weld SMAW groove plate | List es flat p es horiz es vertic | a guided bend test. the Major Course Segment osition ontal position cal position | | · | ng sh | Contact Lecture Hours | Conta Ho | ct Lab urs 0 2 | Clir | nical | Work | Based |
| Weld SMAW groove plate Weld SMAW groove plate | List es flat p es horiz es vertic | a guided bend test. the Major Course Segment osition ontal position cal position | | · | ng sh | Contact Lecture Hours 1.5 1.5 1.5 | Conta Ho | ct Lab urs 0 2 7 | Clir | nical | Work | Based |
| Weld SMAW groove plate | List es flat p es horiz es vertic | a guided bend test. the Major Course Segment osition ontal position cal position | | nits) | otal | Contact Lecture Hours 1.5 1.5 1.5 1.5 1.5 | Conta Ho 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical | Work Lear | Based |
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| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertic es overh | a guided bend test. the Major Course Segment osition ontal position cal position nead position | ts (Un | nits) | DTAL N | Contact Lecture Hours 1.5 1.5 1.5 1.5 1.5 7.5 | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertices overh | a guided bend test. the Major Course Segment position cal position nead position | ts (Un | TC EVALUATION | DTAL N | Contact Lecture Hours 1.5 1.5 1.5 1.5 7.5 ALL PRES | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertic es overh | a guided bend test. the Major Course Segment position cal position nead position | ts (Un | TC EVALUATION | DTAL N | Contact Lecture Hours 1.5 1.5 1.5 1.5 1.5 7.5 | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertices overh | a guided bend test. the Major Course Segment position cal position nead position | ts (Un | TC EVALUATION | OF COM | Contact Lecture Hours 1.5 1.5 1.5 1.5 7.5 AL PRES | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertices overh DIZZES WORK | the Major Course Segment cosition contal position cal position nead position PROJECTS LE: Welding: Principles and | tts (Un | EVALUATION COURSE MATER | OF COM | Contact Lecture Hours 1.5 1.5 1.5 1.5 7.5 AL PRES | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing | List es flat p es horiz es vertides overh DIZZES WORK TIT AUTHO | the Major Course Segment cosition contal position cal position nead position PROJECTS LE: Welding: Principles and OR: Edward Bohnart | tts (Un | EVALUATION COURSE MATER | OF COM | Contact Lecture Hours 1.5 1.5 1.5 1.5 7.5 AL PRES | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |
| Weld SMAW groove plate Guided bend testing QU LAB V | List es flat p es horiz es vertic es overh IIZZES WORK TIT AUTHO JBLISH | the Major Course Segment cosition contal position cal position nead position PROJECTS LE: Welding: Principles and | tts (Un | EVALUATION COURSE MATER | OF COM | Contact Lecture Hours 1.5 1.5 1.5 1.5 7.5 AL PRES | Conta Ho 1 1 1 1 | ct Lab urs 0 2 7 8 | Clir Pract | nical ticum | Work Lear | Based ning |

| MAJOR COURSE SEGMENT | HOURS | LEARNING OUTCOMES |
|---|-------|--|
| | | The student will be able to: |
| Weld SMAW groove plates flat position | 11.5 | Demonstrate SMAW v-groove plates in flat position using E7018 electrode for root pass, intermediate and cover passes. |
| Weld SMAW groove plates horizontal position | 13.5 | DemonstrateSMAW v-groove plates in flat position using E7018 electrode for root pass, intermediate, and cover passes. |
| Weld SMAW groove plates vertical position | 18.5 | Demonstrate SMAW v-groove plates in vertical position using E7018 electrode for root pass, intermediate, and cover passes. |
| Weld SMAW groove plates overhead position | 19.5 | Demonstrate SMAW v-groove plates in overhead position using E7018 electrode for root pass, intermediate, and cover passes. |
| Guided bend testing | 4.5 | Demonstrate guided bend tests on metal 3/8 in (10mm) thick. Two specimens are prepared and tested one root bend. |
| | 67.5 | |

| Outcomes* | At the successful completion of this course, students will be able to: |
|------------------------|---|
| Course Outcome 1 | Demonstrate acceptable SMAW beads in the flat 1G position and pass guided bend test. |
| Course Outcome 2 | Demonstrate acceptable SMAW beads in the horizontal 2G position and pass guided bend test. |
| Course Outcome 3 | Demonstrate acceptable SMAW beads in the vertical 3G position and pass guided bend test. |
| Primary Laker Learning | |
| Competency | Creative Thinking & Problem Solving: Students think creatively to solve problems. |
| Secondary Laker | |
| Learning Competency | Information & Technology Literacy: Students evaluate information effectively using the appropriate technological tools. |

^{*}Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.