



**Alabama
Department of
Postsecondary Education**

Representing Alabama's Public Two-Year College System

REID STATE TECHNICAL COLLEGE

I. COURSE PREFIX, NUMBER, TITLE

WDT 125– Shielded Metal Arc Welding Groove Lab

II. COURSE HOURS

- 3 Credit hour
- 0 Theory credit hours
- 3 Lab credit hours
- 0 Clinical credit hour
- 9 Contact Hours

III. CLASS MEETING DATES/TIMES/LOCATION

Spring Semester 2016

Monday, Tuesday 4:30pm – 6:15pm

Wednesday 4:30pm – 5:20pm

IV. CLINICAL DATES/TIMES/LOCATION (None)

V. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

Derrick Lett

Office: Building 300

Phone: (251) 578-1313 ext. 121

VI. COURSE DESCRIPTION:

This course provides instruction and demonstrations in the shielded metal arc welding process on carbon steel plate with various size F3 and F4 group electrodes in all positions. Emphasis is placed on welding groove joints and using various F3 and F4 group electrodes in all positions. Upon completion, the student should be able to make visually acceptable groove weld joints in accordance with applicable welding codes. This is a **CORE** course. This course supports CIP code 48.0508.

VII. PREREQUISITE(S)/CO-REQUISITE(S)

Prerequisites: Core Level One

Co-requisites: As required by college

VIII. TEXTBOOK(S) AND OTHER LEARNING RESOURCES

Welding – Level One Fifth Edition
NCCER Standardized Curricula
Module 29105-15: Base Metal Preparation
Module 29110-15: Joint Fit-Up and Alignment
Module 29111-15: SMAW Groove Welds with Backing
Module 1211-15: SMAW Groove Welds Open V

IX. PROFESSIONAL COMPETENCIES/OBJECTIVES

Cut, prepare, and assemble plate test specimens in accordance with an applicable welding code
Weld test specimens in the (1G) flat position using various electrodes
Weld test specimens in the (2G) horizontal position using various electrodes
Weld test specimens in the (3G) vertical position using various electrodes
Weld test specimens in the (4G) overhead position using various electrodes
Cut, prepare, and assemble test plates for bend test various electrodes

X. OUTLINE OF MODULES

Setup and prepare equipment for SMAW groove welding.
Prepare test plate for groove welds according to applicable welding codes.
Perform welds in the flat position (1G), horizontal position (2G), vertical position (3G), and overhead position (4G) in accordance with visual inspection to applicable welding codes.

Prepare test coupons for guided bend test using various electrodes in accordance with applicable welding code in all positions.
Perform visual inspection of test coupons to meet applicable welding codes.

XI. EVALUATION AND ASSESSMENT

Performance Evaluation: 70%	90 – 100 = A
Work Ethics: 30%	80 – 89 = B
	70 – 79 = C
	60 – 69 = D
	Below 60 = F

Work ethics may include any or all of the following: absences, attitudes, and constructive participation in class. It will be the decision of the instructor to award or deduct these points from the final grade. A work ethics grade sheet will be completed twice a semester. Other grades which may be assigned in special circumstances are W, I, and AU.

XII. ATTENDANCE

- a. Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid. Withdrawal from class can prohibit progression in nursing and allied health programs.
- b. Students are expected to attend **all** clinical rotations required for each course. Only excused absences will be considered for make up. However, due to limited clinical space and time, clinical make up days cannot be guaranteed. Failure to complete clinical rotations will prohibit progression in nursing and allied health programs.

XII. STATEMENT ON DISCRIMINATION/HARASSMENT

The College and the Alabama Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

XIII. AMERICANS WITH DISABILITIES

The Rehabilitation Act of 1973 (Section 504) and the American with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. **Please contact the ADA representative.**

XIV. COURSE CALENDAR

Jan. 2	HOLIDAY New Year's (College Closed)
Jan. 3	Faculty Duty Day (College open; no classes)
Jan. 4	Late Registration (FDD)
Jan. 5-6	Faculty Duty Day (College open, no classes)
Jan. 9	Classes Begin
Jan. 10	Drop/Add period ends
Jan. 16	HOLIDAY – M L KING/R E LEE Birthday (College closed)
Feb. 27-28	Faculty Duty Day (College open, no classes)
Mar. 1	Classes Resume
Mar. 8	Mid-term
Mar. 27-31	Spring Break (College open, no classes)
Apr. 3	Classes resume
Apr. 7 & 21	ONTRAC new student orientation and registration
Apr. 11-13	Early registration – returning students
Apr. 14	HOLIDAY (College closed)
May 3-5 & 8-9	Final exams & end of classes for Spring Semester
May 10-12	Faculty Duty Day (College open, no classes)
May 12	GRADUATION – Faculty Duty Day
May 15	Faculty Duty Days (College open, no classes)
May 16 – 19	Duty Day for Non-Instructional Personnel (College open, no class)

XV. STUDENT ACKNOWLEDGEMENT FORM

I hereby acknowledge that I have received the syllabus for WDT 125 and I agree to comply with the requirements as stated within.

Student's Signature

Date



**Alabama
Department of
Postsecondary Education**

Representing Alabama's Public Two-Year College System

REID STATE TECHNICAL COLLEGE

I. COURSE PREFIX, NUMBER, TITLE

WDT123 – Fillet/PAC/CAC Lab

II. COURSE HOURS

- 3 Credit hour
- 0 Theory credit hours
- 3 Lab credit hours
- 0 Clinical credit hour
- 9 Contact Hours

III. CLASS MEETING DATES/TIMES/LOCATION

**Spring Semester 2016
Monday, Tuesday 4:30pm – 6:15pm
Wednesday 4:30pm – 5:20pm**

IV. CLINICAL DATES/TIMES/LOCATION (None)

V. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

**Derrick Lett
(251) 578-1313 ext. 121
Office Location: Building 300**

VI. COURSE DESCRIPTION

This course is designed to introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operations of plasma arc and carbon arc cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-4 groups in accordance with applicable welding code and be able to safely operate plasma arc and carbon arc equipment and perform those operations as per applicable welding code. This is a CORE course.

VII. PREREQUISITE(S)/CO-REQUISITE(S)

Prerequisites: Core Level One

Co-requisites: As required by college.

VIII. TEXTBOOK(S) AND OTHER LEARNING RESOURCES

Welding – Level One

IX. PROFESSIONAL COMPETENCIES/OBJECTIVES

Perform SMAW fillet welds.

Perform carbon arc washing and gouging.

Use plasma arc equipment to perform cutting activities.

X. OUTLINE OF MODULES

Air carbon arc equipment

Set-up

Operation

Plasma arc safety

Plasma arc Equipment

Set-up

Shutdown

Operation

Cutting

Piercing

Beveling

XI. EVALUATION AND ASSESSMENT

Performance Evaluation: 70%	90-100	= A
Work Ethics: 30%	80- 89	= B
	70-79	= C
	60-69	= D
	Below 60	= F

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ATTENDANCE

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XIV. EQUIPMENT

Students that are enrolled in this course will need the following tools in order to meet course requirements;

Welding Hood	Steel Toe Boots
Leather Cape or Fire Retardant Jacket	Soap Stone Holder
Welding Cap	16' Tape Measure
Tote Bag or Bucket	
Leather Gloves	
Safety Glasses	
Chipping Hammer	
Rod Pouch or Canister	
Wire Brush	

XV. COURSE CALENDAR

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XVI. STUDENT ACKNOWLEDGEMENT FORM

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Student's Signature

Date



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- 9 Contact Hours

III. CLASS MEETING DATES/TIMES/LOCATION

Workforce Development Center

Spring Semester 2016

Monday – Friday 7:40a-9:40a, 10:05a-11:55a, 1:25p-2:55p

IV. CLINICAL DATES/TIMES/LOCATION (None)

V. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

Derrick Lett

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Cut, prepare, and assemble test plates for bend test various electrodes

X. OUTLINE OF MODULES

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Prepare test plate for groove welds according to applicable welding codes.
Perform welds in the flat position (1G), horizontal position (2G), vertical position (3G), and overhead position (4G) in accordance with visual inspection to applicable welding codes.

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Student's Signature

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