

Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title – Advanced Gas Metal Arc (MIG) Welding

Course Prefix and Number – WLDG 2447

Department – Welding Technology

Division – Workforce Dev

Course Type: (check one)

Academic General Education Course (from ACGM – but not in WCJC Core)

Academic WCJC Core Course

WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours # : Lecture hours# : Lab/other hours # 4:3:4

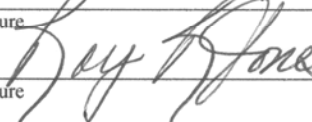
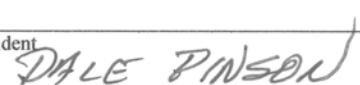
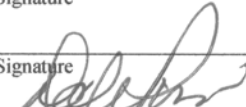
Equated Pay hours for course – 5

Course Catalog Description – Advanced topics in Gas Metal Arc Welding (GMAW). Includes welding in various positions and directions.

Prerequisites/Corequisites - WLDG 1457 or Welding Department Chair Approval

List Lab/ Other Hours
Lab Hours 4
Clinical Hours
Practicum Hours
Other (list)

Approvals – the contents of this document have been reviewed and are found to be accurate.

Prepared by Roy R. Jones	Signature 	Date 10/2/08
Department Head	Signature	Date
Division Chair	Signature	Date
Vice President 	Signature 	Date 10-14-08



I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non lecture instruction):

- Topic 1: Select proper amperage
- Topic 2: Select correct wire speed
- Topic 3: Select correct voltage setting
- Topic 4: Maintain correct wire stick out
- Topic 5: Maintain proper bead
- Topic 6: Weld according to specifications

II. Course Learning Outcomes

Course Learning Outcome	Method of Assessment
<p>Upon successful completion of WLDG 2447, the student will be able to:</p> <ol style="list-style-type: none"> 1. Weld a open v-butt plate in all four (1G, 2G, 3G & 4G) positions 2. Weld pipe open root in all four (1G, 2G, 5G & 6G) positions 	<ol style="list-style-type: none"> 1. Skills evaluation 2. Skills evaluation

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

Modern Welding Technology, 6th Edition, by Howard Cary and Scott Helzer: Prentice Hall, 2005
 Supplemental Readings: Gas Metal Arc Welding Handbook, by William H. Minnick: Goodheart-Willcox Co., 1988. Gas Metal Arc Welding, Published by Hobart Brothers Co., Troy, Ohio 45373, 1980. Modules and Displays. Handouts.

IV. Suggested Course Maximum – 15 student maximum

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.
 Standard welding equipment and supplies

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

Department Assignments	30%
Laboratory Assignments	50%
Final Exam	20%
	100%

100-90 = A
89-80 = B
79-70 = C
69-60 = D
Below 60 = F

I = Incomplete (to be used in case of emergencies or illness)
W = Student Withdrawal (either by student or by instructor)

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:
 - Basic Intellectual Competencies
 - Perspectives
 - Exemplary Educational Objectives

- **WECM Courses**
Attach the following:
 - Program SCANS Matrix
 - Course SCANS Competencies Checklist



Course Prefix & Number: WLDG2447	
SCANS COMPETENCIES FOR THIS COURSE	
Competency	Method of Assessment
1 READING: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	Skills examination
2 WRITING: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	
3 ARITHMETIC OR MATHEMATICS: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	Skills examination
4 SPEAKING AND LISTENING: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	
5 THINKING SKILLS: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	Skills examination
6 PERSON QUALITIES: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	
7 WORKPLACE COMPETENCIES: resources ;interpersonal skills; information; systems; and technology	Skills examination
8 BASIC USE OF COMPUTERS	

SCANS Matrix

Program: Welding Technology CIP: 48.0508									
LIST ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES									
Competencies								Course Number	Course Title
1	2	3	4	5	6	7	8		
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