Wharton County Junior College

Administrative Master Syllabus

Course Information

Course Title	Introduction to Blue Print Reading
Course Prefix, Num. and Title	WLDG 1413
Division	Vocational Science: Welding Technology
Department	Welding Technology
Course Type	WECM Course
Course Catalog Description	A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.
Pre-Requisites	none
Co-Requisites	none

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours: Lab/Other Hours	4:3:4
Equated Pay Hours	5
Lab/Other Hours Breakdown: Lab Hours	4
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:	Aaron Dittmar Digitally signed by Aaron Dittmar Date: 2020.08.13 11:55:02 -05'00'	
Department Head:	Aaron Dittmar Digitally signed by Aaron Dittmar DN: cn=Aaron Dittmar, o=Wharton Country Junior college, ou=Welding Program Director, email=Dittmara@wcjc.edu, c=US Date: 2020.08.04 15:24:17 -05'00'	
Division Chair:	Timothy Guin Digitally signed by Timothy Guin DN: cn=Timothy Guin, o=Division Chair, ou=VOCS, email=guint@wcjc.edu, c=US Date: 2020.08.13 13:24:44 -05'00'	
Dean/VPI:	Paul J. Quinn Digitally signed by Paul J. Quinn Date: 2020.08.14 10:42:03 -05'00'	
Approved by CIR:	Paul J. Quinn Digitally signed by Paul J. Quinn Date: 2020.08.14 10:42:19 -05'00'	

Additional Course Information

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

Use of hand and power tools, setting up and using welding equipment to perform welds in all positions. Use various welding processes, set up, use of oxygen/fuel and plasma cutting processes, and the use of welding blueprints to fabricate a project.

Course Learning Outcomes:

- Define terms and abbreviations

- Identify and explain object views, lines, and dimensions

- Identify, explain and interpret weld symbols

- Identify structural shapes

- Demonstrate the proper use of measuring devices

- Read and interpret blueprints

- Read welding detail drawings

- Calculate dimensions and material

Methods of Assessment:

- Classroom exercises

- Practical layouts

- Quizzes and Exams

Required text(s), optional text(s) and/or materials to be supplied by the student:

Blue Print Reading for Welders and Fabrication

Suggested Course Maximum:
20

List any specific or physical requirements beyond a typical classroom required to teach the course.
none
Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

AWS Assignments 40%
Laboratory Assignments 40%
Final Exam 20%
Total 100%

Curriculum Checklist:

☐**Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.

☐**Administrative WCJC Core Course**. Attach the Core Curriculum Review Forms

- ☐Critical Thinking
- ☐Communication
- ☐Empirical & Quantitative Skills
- ☐Teamwork
- ☐Social Responsibility
- ☐Personal Responsibility

☒**WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist