

## COURSE OUTLINE

Revision: Rodger Squirrel July 14, 2009

DEPARTMENT:	Manufacturing Technology
CURRICULUM:	Welding Fabrication Technology
COURSE TITLE:	Welding Inspection and Evaluation
COURSE NUMBER:	WFT 129
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	1 Quarter
CREDIT HOURS:	5
LECTURE HOURS:	44
LAB HOURS:	22
CLASS SIZE:	25
PREREQUISITES:	Experience with at least one arc welding process to include GMAW or GTAW, ability to lift 50 lbs., or instructor's permission

## COURSE DESCRIPTION:

This course covers the basics of welding inspection methods and criteria for determining compliance with defined standards. Systematic evaluation methods in the light of design purpose are presented with the aim of distinguishing quality from acceptability. A review of the applications of the more popular welding processes is included.

## STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations - Use social interactive skills to work in groups, as assigned, to complete minimum skill requirements.

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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

2. Personal Responsibility - Take responsibility for meeting deadlines as assigned. Demonstrate safe shop practices. Take pride in one's own workmanship per industry standards, and citizenship.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will be able to:

1. Identify major types of both destructive and non-destructive testing methods as used in welding fabrication
2. Measure size of welds and defects as specified on blueprints etc.
3. Identify types of weld discontinuities and what is a defect
4. Recognize the proper applications of a specific welding process in a specific situation
5. Convey the results of weld inspection in a positive manner
6. Record results of weldment inspection in a clear and easily accepted form

TOPICAL OUTLINE	APPROX. HOURS
I. Welded structures, weld joints, welding processes	23
II. Welding inspection	25
III. Welding process selection	10
IV. Communicating inspection findings	5
V. Weldment inspection record keeping	<u>3</u>
Total	66

Detailed Topical Outline is available separately

REVISED BY: John Todd  
DATE: January 20, 2003