



Wayne County Community College District

COURSE SYLLABUS

WLT 202 QUALITY TESTING– WELDING

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

Welding quality and inspection procedures form the basis of this course. Students are exposed to equipment used for weld quality testing and procedures for determining a proper weld.

PREREQUISITES: *WLT 101, WLT 102, WLT 103, WLT 104, WLT 105*

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be able to:

- Understand welding inspection and quality control
- Be able to perform visual inspection on the five major welds
- Understand destructive testing and its role in weld quality testing
- Understand liquid dye penetrant inspection and its role in weld quality testing
- Understand magnetic particle inspection and its role in weld quality testing
- Understand eddy current testing and its role in weld quality testing
- Understand radiographic inspection and its role in weld quality testing
- Understand ultra-sonic inspection and its role in weld quality testing
- Perform visual inspection exercises on fillet welds
- Perform visual inspection exercises on groove welds
- Be aware of the qualification of non-destructive testing personnel

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E