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## SECTION HEADING

### WELD 1270: Testing Codes & Inspection

#### Description

Testing Codes and Inspection describes the different types of destructive and non-destructive weldment testing. Emphasis will be placed on major national welding codes that govern the welding industry specifically the American Welding Society Structural Code D1.1 along with the American Welding Society Codes.

#### Credits

2

#### Prerequisite

None

#### Corequisite

None

#### Topics to be Covered

1. Differences between destructive and non-destructive testing
2. The common discontinuities and the non-destructive methods of locating them
3. Mechanical or destructive testing methods
4. Why welds are tested
5. How to evaluate welds for compliance with a given standard or code

#### Learning Outcomes

1. Differentiate between mechanical or destructive and non-destructive testing.
2. Identify common discontinuities and non-destructive methods of locating them.
3. Describe how three mechanical or destructive methods are performed.
4. Provide reasons why welds are tested.
5. Evaluate a weld for compliance with a given American Welding Society standard or code.
6. Demonstrate a technical understanding of the testing, codes and inspection process.

#### Credit Details

Lecture: 2

Lab: 0

OJT: 0

MnTC Goal Area(s): None