

Iowa SENSE Aligned Welding Curriculum

General Course Info

Course Number:	254
Discipline:	WEL – Welding
Course Title:	Welding Inspection and Testing Principles: SENSE1
Short Title:	Inspection/Test Princ: SENSE1

Course Details

Course Description:	Students will visually examine test weldments and thermally cut surfaces per multiple welding codes, standards, and specifications. This course aligns to SENSE Level I, Module 9: Welding Inspection and Testing Principles.
Credit Hours:	1 (1 Lecture)
Pre/ Co-requisites:	WEL 233 is a pre or co-requisite.

Course Competencies

Course Competencies:	<ol style="list-style-type: none"> 1. Evaluate cut surfaces and edges of prepared base metal parts 2. Evaluate tacks, root passes, intermediate layers and completed welds
Course Sub-Competencies:	<ol style="list-style-type: none"> 1.1 Visually inspect cut surfaces and edges of parts 1.2 Discuss quality of cut surfaces and edges of parts 2.1 Visually inspect tacks, root passes, intermediate layers and completed welds 2.2 Examine weld using proper measurement devices 2.2 Identify internal and external discontinuities

Assessment of Student Learning

SENSE Assessment:	<ol style="list-style-type: none"> 1. The trainee shall pass the visual examination portion of a written examination from the related sections of AWS B1.11, <i>Guide for the Visual Examination of Welds</i>.
Recommended Third Party Certification:	n/a