

RealCareer™ Bend Tester Curriculum Overview

Goals:

Curriculum goals include helping students understand the process and steps of bend testing for qualification purposes and helping educators teach how to prepare for a weld that will go through the bending process, how to conduct bend testing and how to determine whether a bend is approved or not.

Length:

The up to 15-hour curriculum is comprised of lessons and activities that can take 40-60 minutes each.

Synopsis:

Each unit includes teacher guides, PowerPoint presentations, worksheets, quizzes and assessments.

	Unit 1	Tools Utilized
Focus	Bend Test Qualification	
Number of Lessons	8	
Topics	Welding Safety - PPE	Curriculum
	Parts of a WPS	Curriculum
	Reading a WPS	Curriculum
	Nondestructive and Destructive Testing	Curriculum
	Prepare to Weld for a Bend Test Qualification	Curriculum
	Welding a Qualification Test	Curriculum, Posters
	Preparing to Bend and Examining a Bend for Qualification	Curriculum, Posters, Bend Tester
	Welding Career Opportunities	Curriculum

Curriculum Components:

- **Instructor's Guide** with detailed information for classroom learning.
- **Welding posters** for student learning aids and quick reference guides.
- **Student Notes materials** like student activity sheets and homework assignments for every lesson.
- **Microsoft PowerPoint® presentation slides** for visual classroom learning during each lesson.
- **Assessment Tools** such as quizzes and exams with answer keys to track students' knowledge for select lessons.



Unit 1: Bend Tester

Lesson 1: Welding Safety - PPE

- Types of Welding Hazards
- Personal Protective Equipment
- Clothing and Skin Precautions

Lesson 2: Parts of a WPS

- Steps to creating a WPS
- How to understand a WPS

Lesson 3: Reading a WPS

- Following a WPS
- Reading a WPS
- Filling out a WPS

Lesson 4: Nondestructive and Destructive Testing

- Visual Inspection and Testing
- Nondestructive Testing
- Destructive Testing

Lesson 5: Prepare to Weld for a Bend Test Qualification

- Understand the basis for various welder qualification tests
- Identify the steps to prepare for a welding qualification test

Lesson 6: Welding a Qualification Test

- Identify steps to prepare your weld
- Following bend test procedures
- Understanding welding passes

Lesson 7: Preparing to Bend and Examining a Bend for Qualification

- Identify the process for bending a welding qualification test
- Examining a bend to see of pass/fail qualities

Lesson 8: Welding Career Opportunities

- Career Paths in Welding
- Ways to be skilled for welding

