

RealCareer® Welding Solutions Weld Defects Kit

Goals:

To help students understand how weld defects and discontinuities occur, how to identify them and address them by correcting both their machine and their technique.

Length:

The up to 10-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	Welding Defects	
Number of Lessons	5	
Topics	Welding Safety – Personal Protective Equipment	Posters
	Types of Welding	Posters
	Welding Basics and Techniques	Posters
	Welding Defects	Weld Defects Kit Models, Weld Defects Student Flash Cards, Wed Defects Posters
	Weld Testing	Weld Defects Kit Models
Assessment	Welding Review and Assessment	Weld Defects Kit Models, Weld Defects Student Flash Cards, Wed Defects Posters

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.
- **Student flash cards** to be used as a learning drill with student to aid learning and practice identification of weld defects.
- **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.



RealCareer® Weld Defects Kit Curriculum Outline

Unit 1: Weld Defects

Lesson 1: Welding Safety - PPE

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

Lesson 2: Types of Welding

- Types of Welds and Applications

Lesson 3: Welding Basics

- 5 Basics
- Welding Joints
- Positions

Lesson 4: Weld Defects

- Types of Defects
- Causes of Defects
- Repair
- Prevention of Defects

Lesson 5: Weld Testing

- Destructive weld testing
- Non-Destructive weld testing

Lesson Review: Weld Defects Definition

- Weld Defects Exam

