

Trade Skills Curriculum Overview



Realityworks curriculum comes with lesson plans, presentation slides, assessments and other student materials.

Experiential Learning Tools	Curriculum Length	Unit Focus	Lesson Topics
guideWELD® VR	20-30 lesson hours	Understanding Labor and Delivery	<ul style="list-style-type: none"> • Welding Career Opportunities • Types of Welding • Welding Safety • Safety Review, Assessment, Certification
		Welding Equipment, Basics and Defects	<ul style="list-style-type: none"> • Welding Equipment • Weld Defects • Welding Basics
		Introduction to Welding Simulation	<ul style="list-style-type: none"> • Intro to Welding Simulation
guideWELD® LIVE	20-30 lesson hours	Welding Careers, Types of Welding and Welding Safety	<ul style="list-style-type: none"> • Welding Career Opportunities • Types of Welding • Welding Safety • Safety Review, Assessment, Certification
		Welding Defects and Correction	<ul style="list-style-type: none"> • Basics to Quality Welds • Identifying Defects • Multiple Causes of Defects • Defects Assessment
		Welding Testing and Welding Procedure Specifications	<ul style="list-style-type: none"> • Weld Testing • Reading a WPS • Testing and WPS Activity • Weld Testing and WPS Assessment
Common Welding Joints Kit	3-4 lesson hours	Common Welding Joints	<ul style="list-style-type: none"> • Welding Safety • Types of Welding • Weld Techniques • Common Welding Joints
RealCareer™ Weld Defects Kit	10 lesson hours	Welding Defects	<ul style="list-style-type: none"> • Welding Safety - PPE • Types of Welding • Welding Basics and Techniques • Welding Defects • Weld Testing • Welding Review and Assessment
RealCareer™ Bend Tester	15 lesson hours	Bend Test Qualification	<ul style="list-style-type: none"> • Welding Safety - PPE • Parts of a WPS • Reading a WPS • Nondestructive and Destructive Testing • Prepare to Weld for a Bend Test Qualification • Welding a Qualification Test • Preparing to Bend and Examining a Bend for Qualification • Welding Career Opportunities

Experiential Learning Tools	Curriculum Length	Unit Focus	Lesson Topics
RealCareer™ Electrical Wiring Kit	<i>13 lesson hours</i>	Electrical Wiring Training	<ul style="list-style-type: none"> • Electrical Safety • Electrical Principles • Basic Wiring Skills
Measurement Math Training Kit	<i>5-10 lesson hours</i>	Introduction to Measurement Math	<ul style="list-style-type: none"> • Metric and Standard Readings • How to Read a Ruler and Tape Measure • How to Read and Use a Caliper • Decimals • Conversions • Measurements Using a Ruler and Tape Measure • Measurements Using a Caliper
RC Tractor Pull Challenge (5-pack) with Pulling Sled	<i>5-7 lesson hours</i>	RC Tractor Pull Challenge	<ul style="list-style-type: none"> • Understanding Force and Motion • The Work of Friction and Gravity • Gear Ratios and Traction With Tires • Acceleration and Sled Pulling • Tractor Pulling and Distance Pulling
RealCareer® Welding Career Exploration	<i>14 lesson hours</i>	Welding Related Careers	<ul style="list-style-type: none"> • Careers in Manufacturing and Production Welding • Career Opportunities in Welding Fabrication • A Day in the Life of a Welding Engineer • Looking into a Career as a Pipe Welder • Exploring a Career in Welding Quality Assurance or as a Certified Welding Inspector (CWI) • Exploration of Other Welding Related Careers

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