

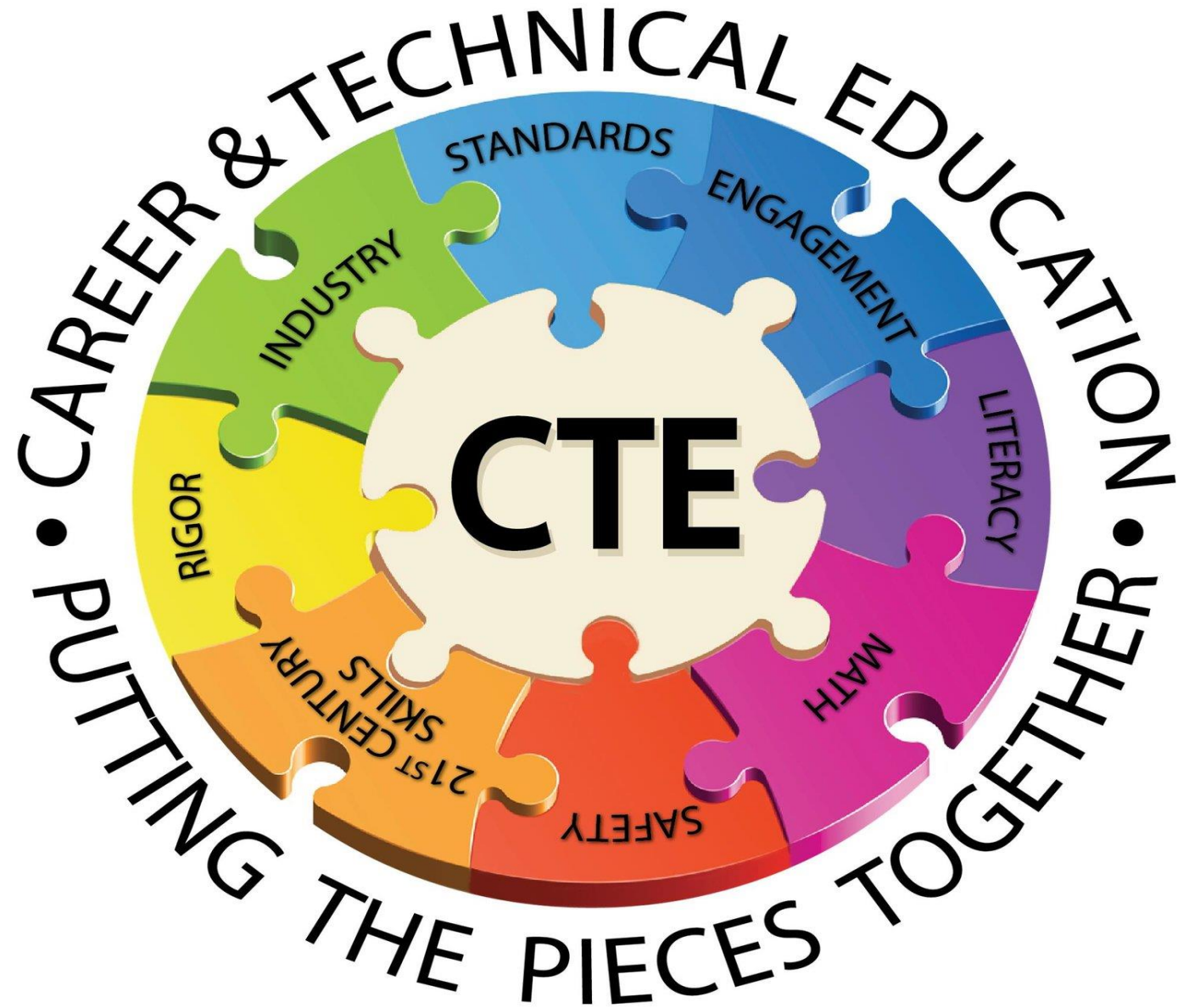
Realityworks[®]
Live it. Learn it.[™]

Refresh Your Welding Program with Realityworks Welding Solutions

Innovative Learning Tools for Skills Training

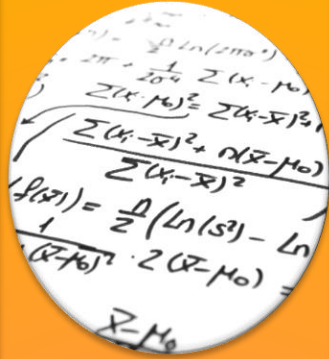
FACS | Health Sciences | Agriculture | Welding and Trade Skills







**Welcome/
Goals of the
Day**



**Boosting
Student
Engagement**



**Tools to Attract
students to your
program**



**Successful
Implementation**



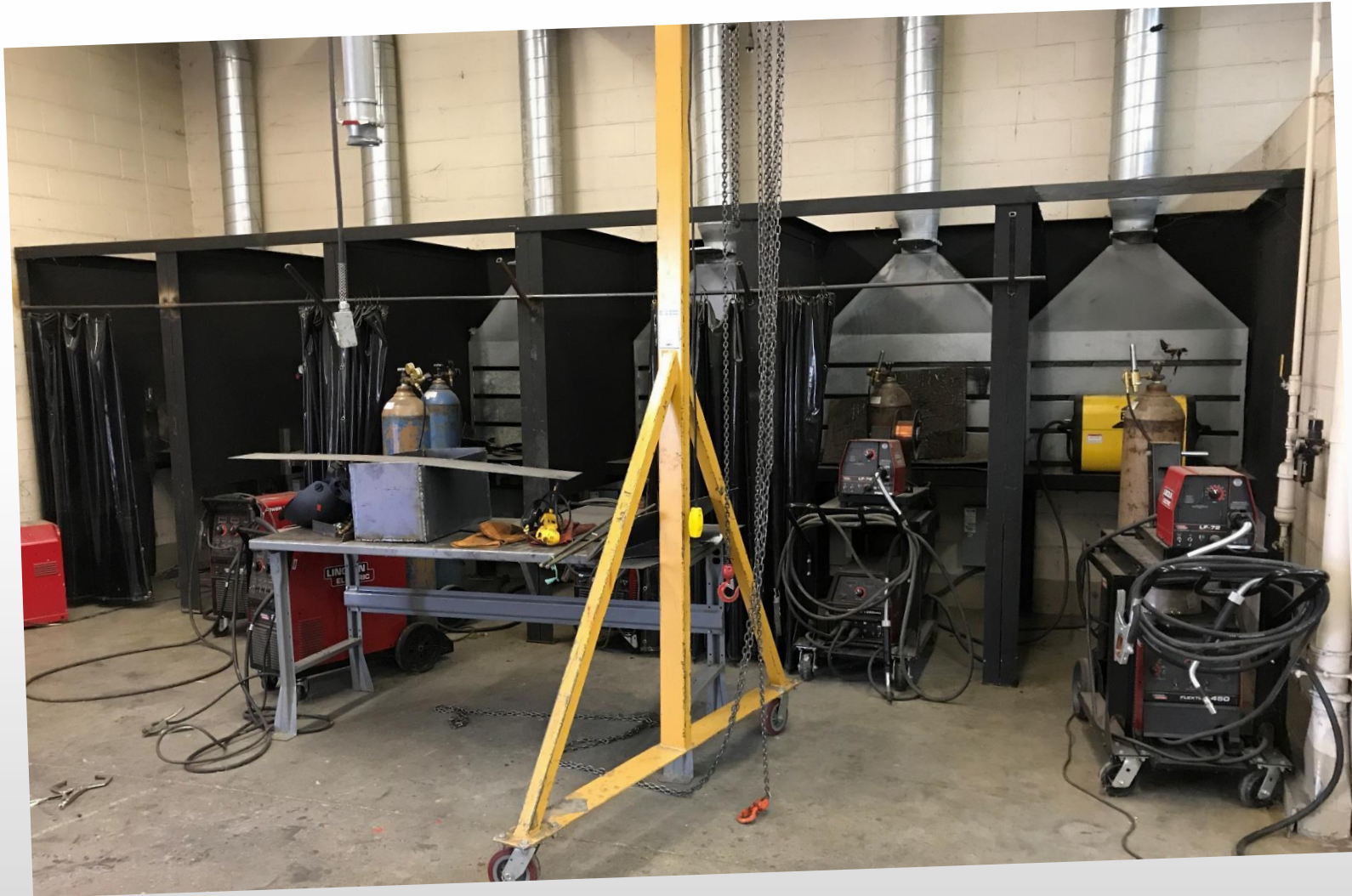
**Free Resources
and Q&A**



**How could you boost
student engagement?**

Student Engagement

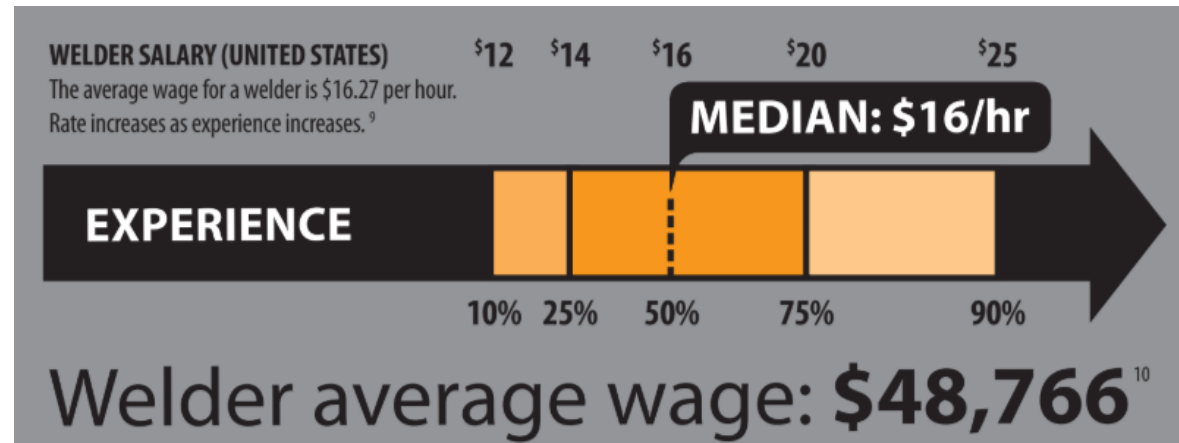
- Create routine and schedules
- Let students know what is to come – *create anticipation and excitement*
- Allow for repetition and repeatability
- Create avenues to learn about Career Exploration
- Work to define what success looks like together
- Bring challenges and competition into the classroom



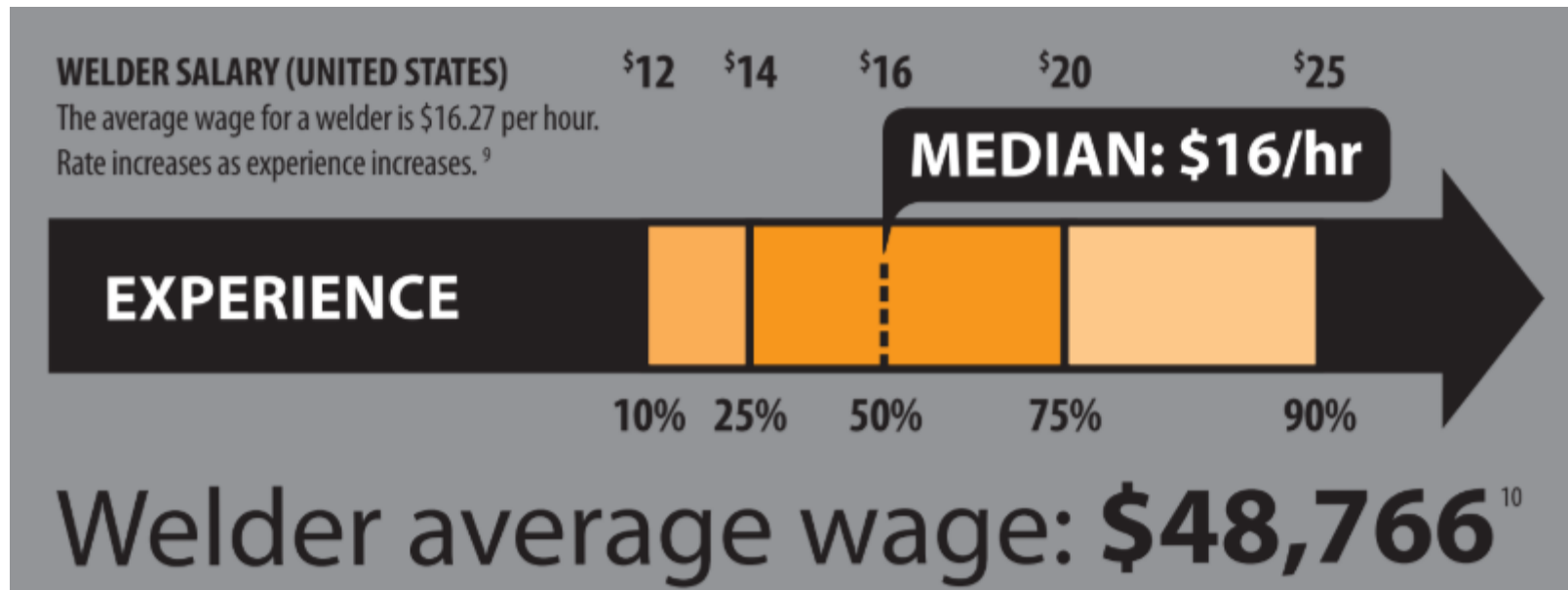
Welding Careers

Welders need to be:

- Highly skilled workers
- Have good interpersonal skills
- Self-motivated
- Able to interpret engineering drawings and blueprints
- Willing to work overtime when needed
- Willing to work in Hazardous conditions



Welding Careers



The 90th Percentile of welders earn \$57,000 per year

Career Exploration



800.830.1416 [Blog](#) [Contact](#)

[PRODUCTS](#) [RESOURCES](#) [SUPPORT](#) [ABOUT](#) [NEWS](#)

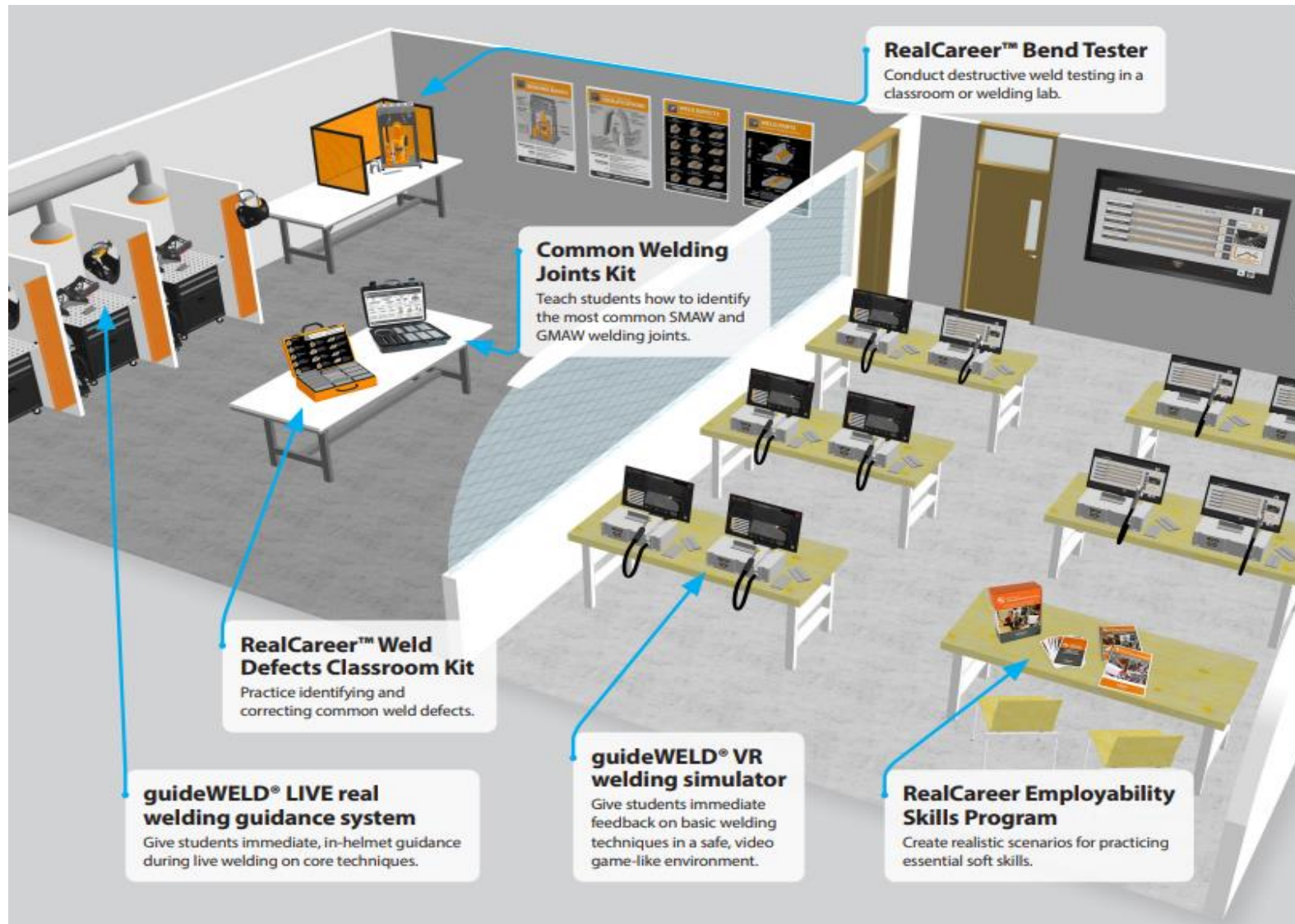
Free Lesson Plans

We partnered with subject matter experts to create curricula that provide valuable career exploration and skill development opportunities. Use these lesson plans to engage your students in career exploration related to our hands-on learning aids, including opportunities within agriculture, health science, Family & Consumer Sciences, and trade skills.

- Agriculture career exploration
- Food science and meat evaluation career exploration
- Business and marketing career exploration
- Culinary arts and food science career exploration
- Exploration of careers in therapeutic services
- Family & Consumer Sciences (FCS) career exploration
- Child care career exploration
- Interior design career exploration
- Health science career exploration
- Dental career exploration
- Human Services career exploration
- Sports medicine career exploration
- STEM for FCS programs
- Trade skills career exploration
- Veterinary technician career exploration
- Architecture and construction career exploration
- Power, structural and technical systems career exploration
- Welding career exploration



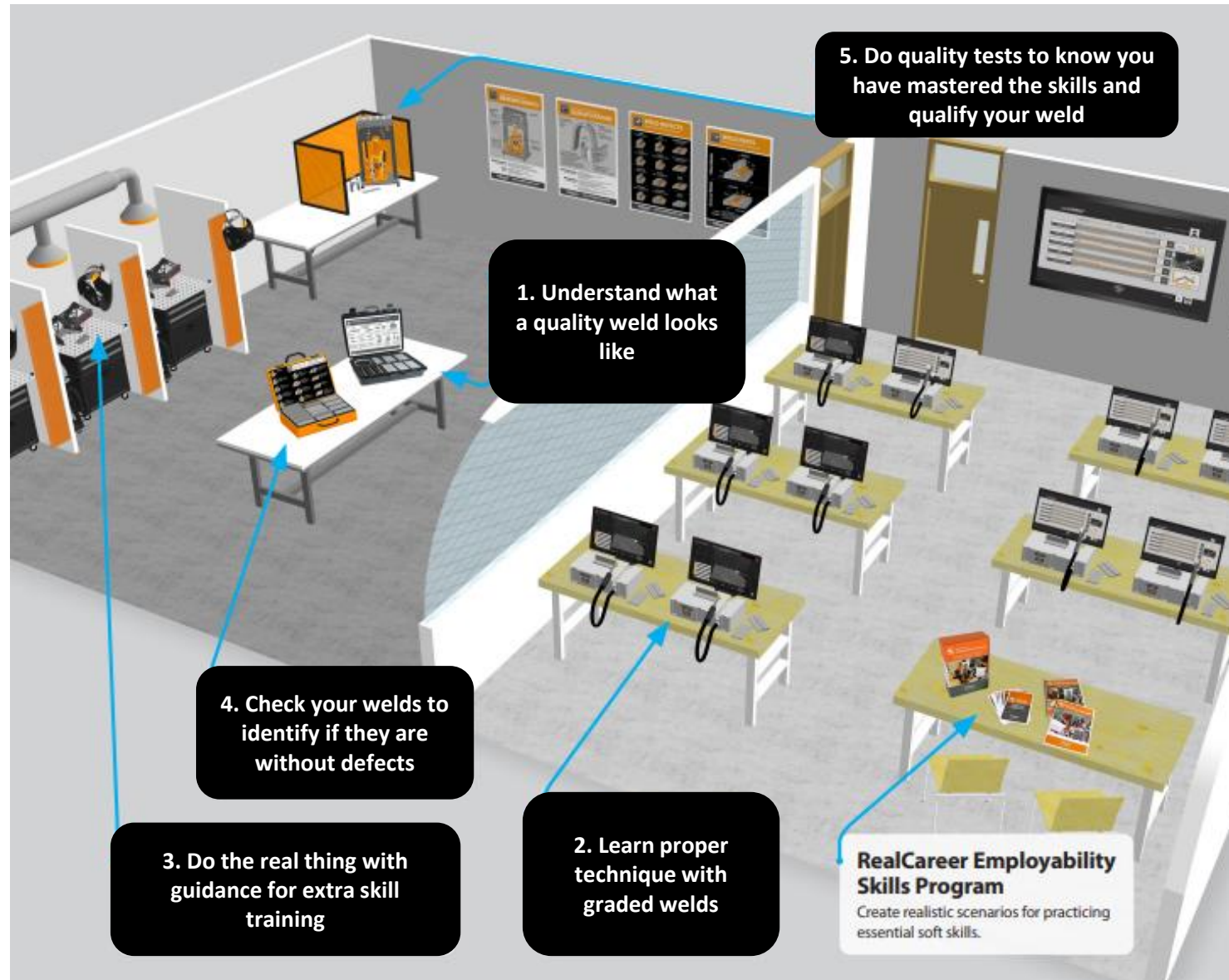
 ACCESS FREE LESSON PLANS



Welding Solutions

Program Implementation Guide

Engage your students in career exploration and help them develop 21st Century skills.



Tools to Attract Students to your program

Welding Program Checklist

Teacher

- Industry certified (optional but optimal)
- Education centered background
- Knowledge of industry

Curriculum

- American Welding Society aligned
- Following standards and best practices

Facility

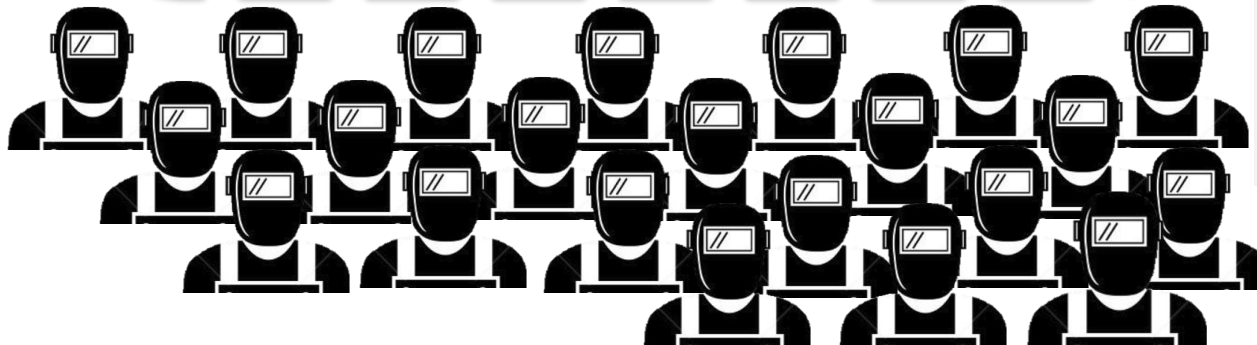
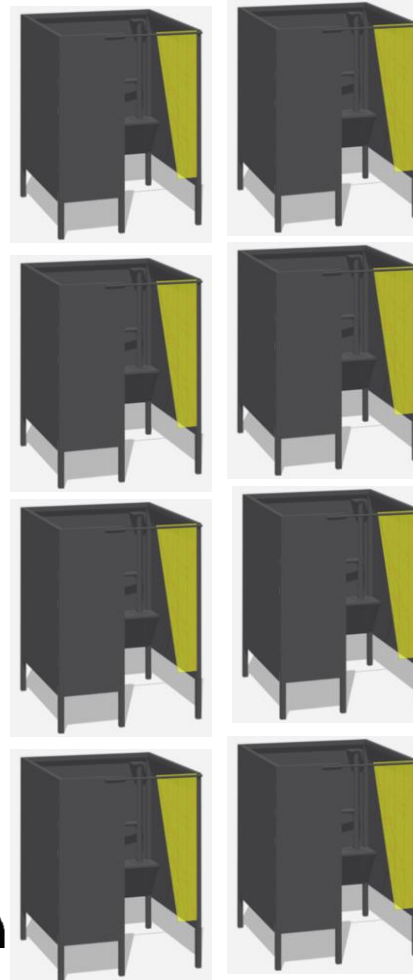
- Classroom - computers, Projector, Screen
- Equipment – welding booths, welding machines, exhaust, helmets, safety equipment (PPE), metal

Today's High School Welding Lab

8 – number of welding booths on average per high school

22 – average number of students per welding class

33 – percentage of students with cognitive disabilities



guideWELD^{VR}

Virtual Reality Welding

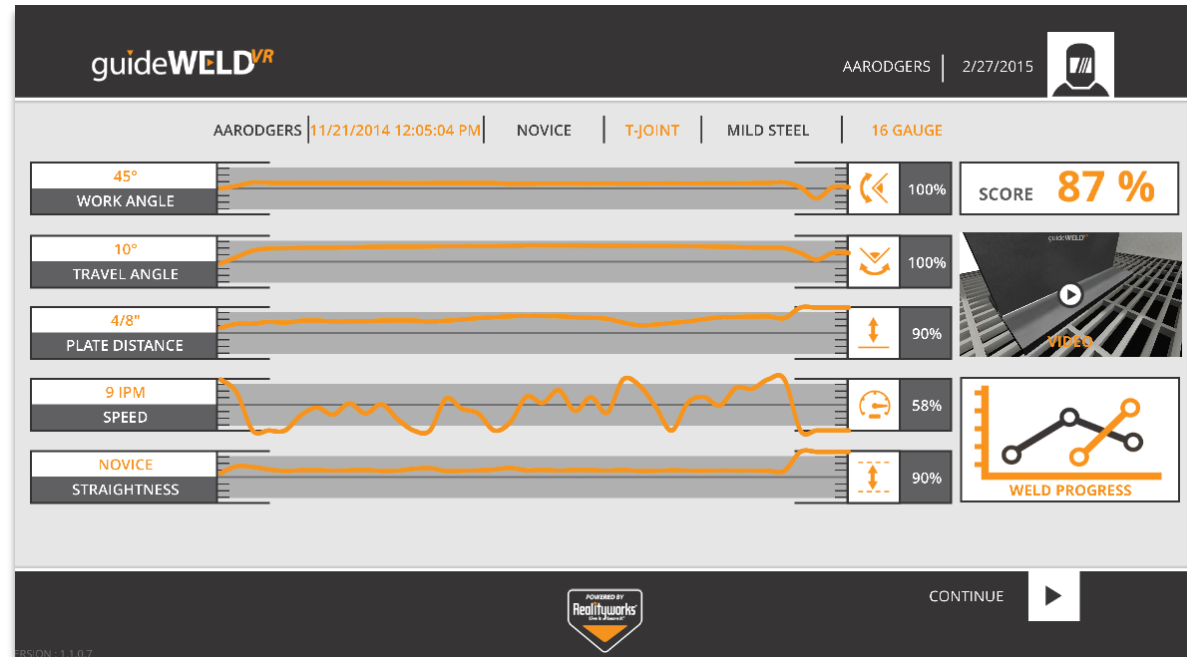
- Technique guidance
- Technique assessments
- GMAW & SMAW available
- Teacher customizable
- Local install / no licenses





Assessment

- Tracks work angle, travel angle, plate distance, speed and straightness
- Overall score given as a percentage
- Graphs student progress



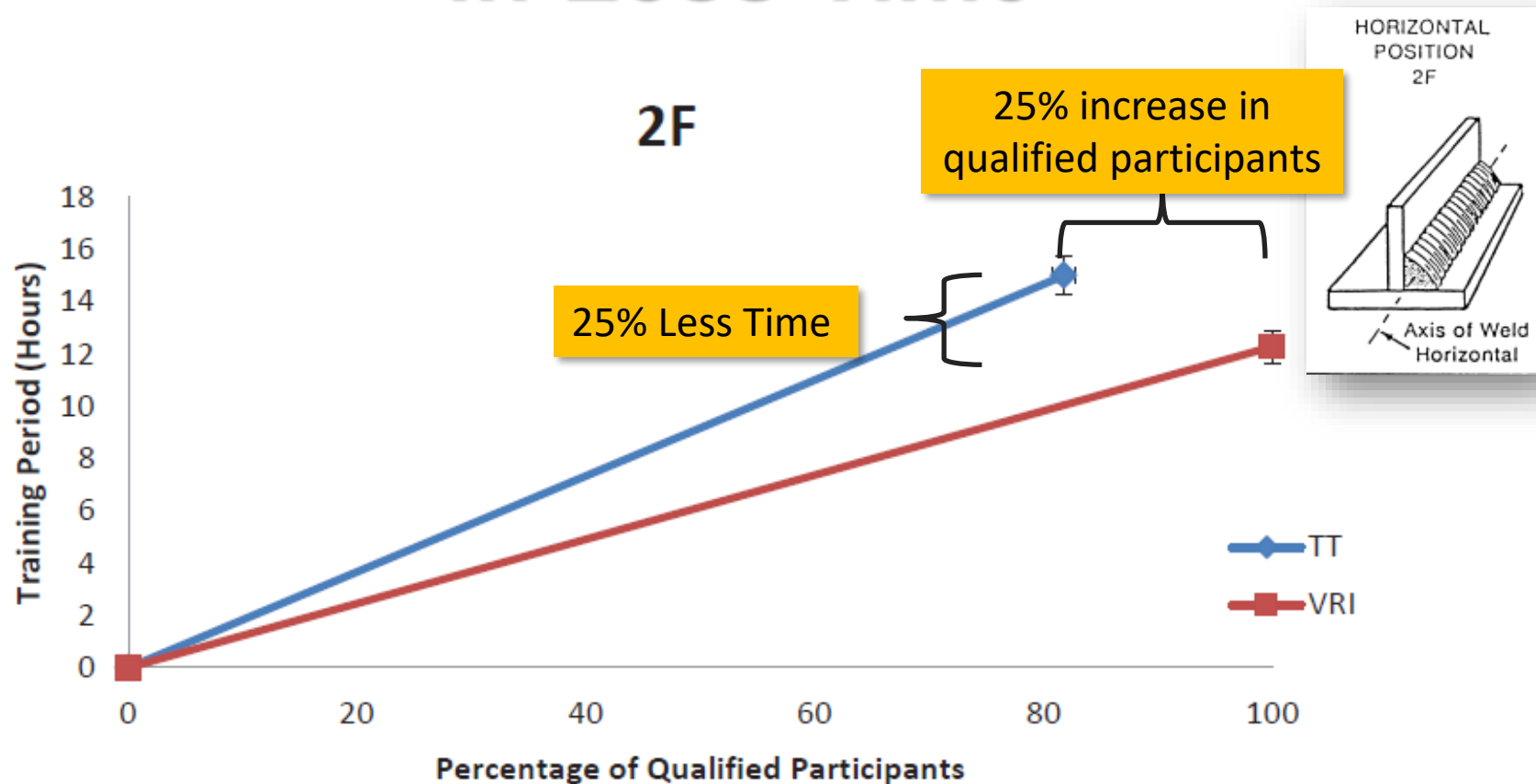
Virtual Reality Integrated Weld Training

Study shows VR welding:

- *Increases* learning of welding techniques
- *Increases* ability of student to create qualified welds
- *Increases* understanding of proper welding
- *Reduces* amount of time needed to do quality welds
- *Reduces* costs of material for welding training

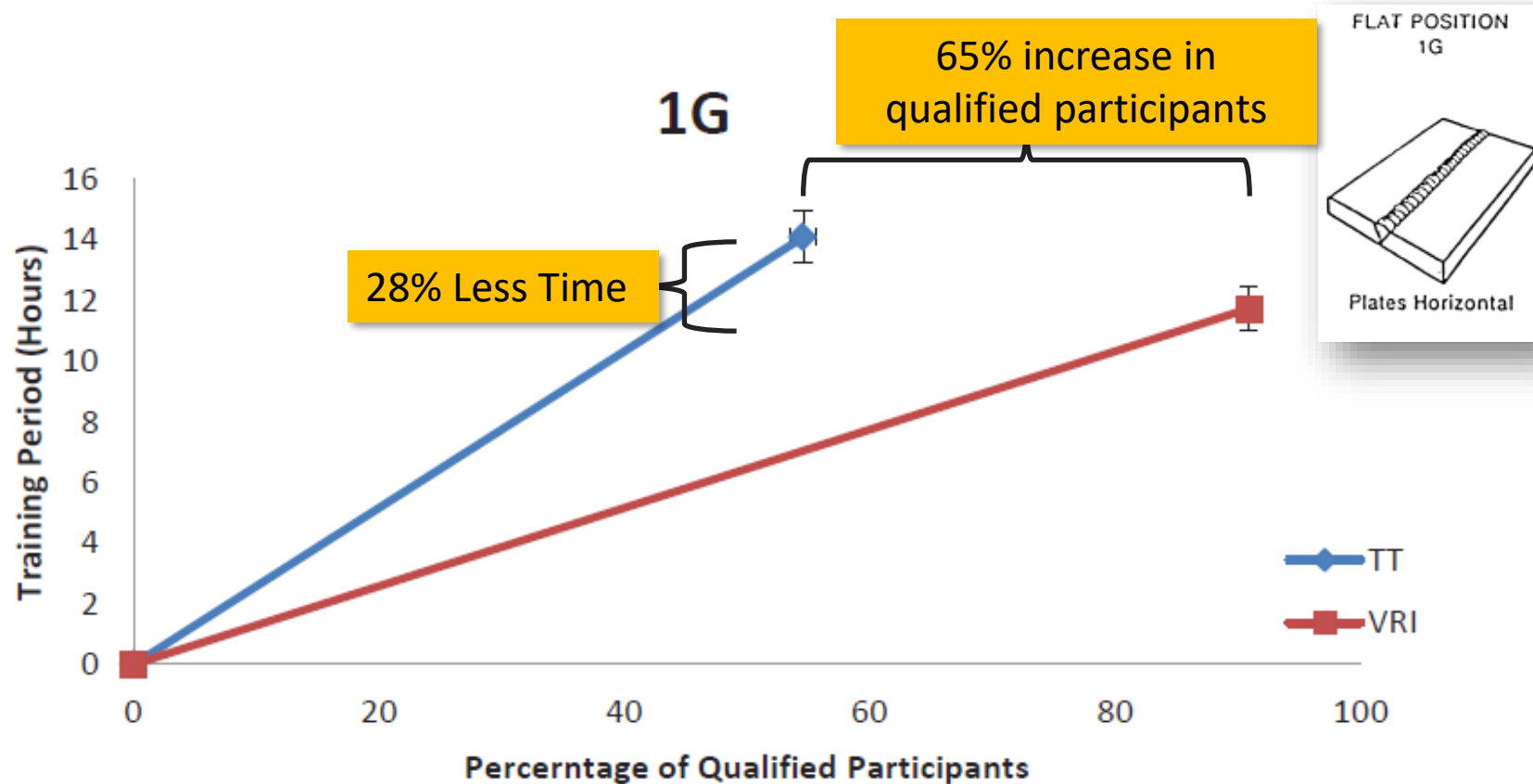


Simulators Create More Welders in Less Time



1. Stone, R., Watts, K., Zhong, P., & Wei, C. (2011). Physical and cognitive effects of virtual reality integrated training. Human Factors, 53(5), 558-587. Retrieved from <http://connection.ebscohost.com/c/articles/66816988/physical-cognitive-effects-virtual-reality-integrated-training>

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...And With Less Cost

*“welding simulation has decreased
our consumable and welding
costs by about **70%** for
our program.”*

George Karr,
Welding and Technology Instructor
Hollenstein Career & Technology Center, Fort Worth, TX

guideWELD[®]LIVE

- Real time corrective feedback in every welding booth for MIG & STICK
- Feedback comes from 9 default WPS's with customization available
- Guidance on proper technique
 - Work Angle
 - Travel Angle
 - Speed









RealCareer™ Weld Defects Kit

Product includes:

- 1 Quality weld model
- 12 Weld defect models
- Weld effect definition insert
- Instructor Guide
- Case for all welding models
- Weld Defects Curriculum (Online)
- 10 Sets of student flash cards
- 5 Classroom posters



Common Welding Joints Kit

Product includes:

- 10 common welding joints (SMAW & GMAW weldments)
- Instructor Guide
- Case for all welding models
- Common Joints Curriculum
- Flashcard Set (downloadable & printable)

- *Created by AWS certified welding inspector/educator*
- *Showing details for both SMAW & GMAW*



RealCareer™ Bend Tester

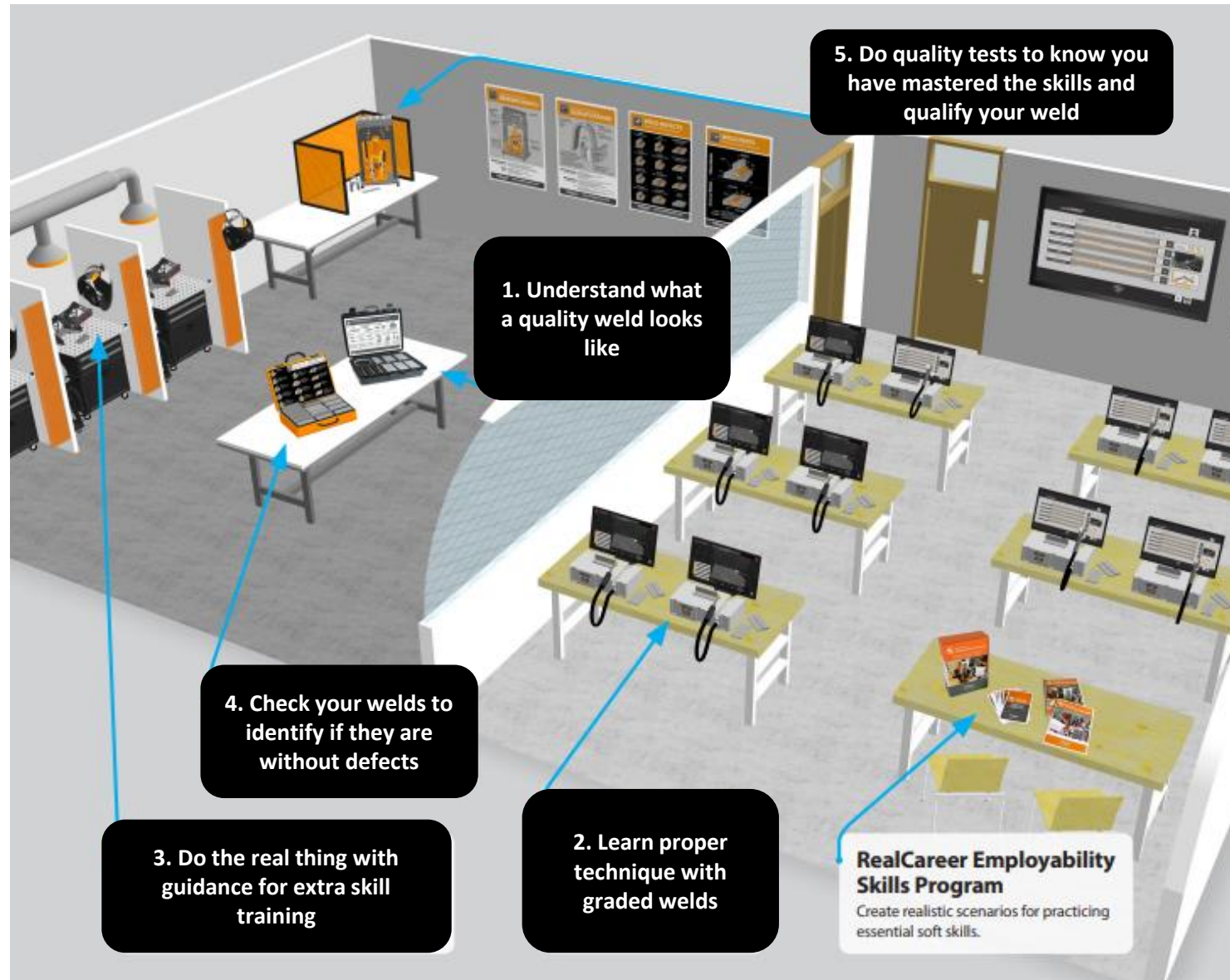
Product Includes:

- Guided Bend Tester Complies with AWS D1.1 code
- 3 plunger sizes & 3 Roller Settings
 - ½, 1, 1 ½ inch
- 2 Bend Testing Posters
- Curriculum (8 Lessons)
- 8-ton jack
- 1 year warranty



Experiential Learning Tools	Curriculum Length	Lesson Topics	
guideWELD® LIVE real welding guidance system	30 hours	1. Welding Career Opportunities 2. Types of Welding 3. Welding Safety – PPE 4. Safety Review Assessment, Certification 5. Basics to Quality Welds	6. Identifying and Assessing Defects 7. Weld Testing 8. Reading a WPS 9. Weld Testing and WPS Assessment
guideWELD® VR welding simulator	30 hours	1. Welding Career Opportunities 2. Types of Welding 3. Welding Safety – PPE 4. Safety Review Assessment, Certification 5. Basics to Quality Welds	6. Identifying and Assessing Defects 7. Weld Testing 8. Reading a WPS 9. Weld Testing and WPS Assessment
Common Welding Joints Kit	1-2 hours	1. Common Welding Positioning 2. Identifying Common Welding Joints	
RealCareer™ Weld Defects Classroom Kit	10 hours	1. Welding Safety – PPE 2. Types of Welding 3. Welding Basics and Techniques	4. Welding Defects 5. Weld Testing 6. Welding Review and Assessment
RealCareer™ Bend Tester	15 hours	1. Welding Safety – PPE 2. Parts of a WPS 3. Reading a WPS 4. Nondestructive and Destructive Testing	5. Prepare to Weld for a Bend Test Qualification 6. Welding a Qualification Test 7. Preparing to Bend and Examining a Bend for Qualification 8. Welding Career Opportunities
RealCareer™ Employability Skills Program	19-30 hours	1. Communication 2. Teamwork 3. Problem Solving & Critical Thinking 4. Using Technology 5. Time Management 6. Interviews 7. Motivation 8. Work Ethic 9. Listening 10. Respect	11. Responsibility 12. Flexibility 13. Interpersonal Skills 14. Negotiation 15. Networking 16. Patience 17. Presentation Skills 18. Self-Confidence 19. Stress Management

Successful Implementation





Free Resources

- Personal Protective Equipment (PPE) Lesson
- Common Welds Lesson
- Link to Free [Career Exploration Lessons](#):

Q&A



100% EMPLOYEE-OWNED

Visit www.realityworks.com today!

For more information please contact Realityworks, Inc.
through email at information@realityworks.com
or call toll free at 800.830.1416

JOIN US ON

