

# BEST PRACTICES

# VIRTUAL WELDING EDUCATION

21st Century technology



**Engage participants and encourage them to enter welding careers with virtual welding education. Below are four ways that educators and professionals can use virtual welding in the classroom.**

1 *John Paulus, the Mobile Manufacturing Lab Technician for Chippewa Valley Technical College in Eau Claire, WI, has seen this first-hand. "We're trying to get these kids excited about getting skilled and getting into manufacturing careers, said Paulus. "This equipment is enhancing our ability to do that."*

2 *According to Greg Siepert, Welding Technology Instructor at Hutchinson Community College in Hutchinson, KS, the guideWELD VR system in particular "gives [students] real-time feedback on what they're doing and if it is right or wrong, and it builds their confidence."*

3 *"We found that the simulators really push the students. By the time they get done with them, they're ready for the real thing and they jump right in," said Dan Leinen, retired Agriculture Education Teacher at Harlan Community High School, Harlan, IA*

4 *"We had competitions with the guideWELD VR unit," recalls Rodian Manjarres, a welding student and guideWELD VR user from Greer, SC. "Everyone was trying to beat each other's scores and kept taking more turns. Everyone was really excited about it."*

5 *"We saw a 70% reduction in consumables costs with the virtual welders," Stated George Karr, an IT administrator and welding instructor at the Hollenstein Career & Technology Center in Fort Worth, TX.*

## Exploratory tool for Career and Technical Education programs

Virtual welding gives students a chance to try out welding in a safe, virtual environment while using the 21st Century technology to engage today's students and gets them excited about these potential careers.



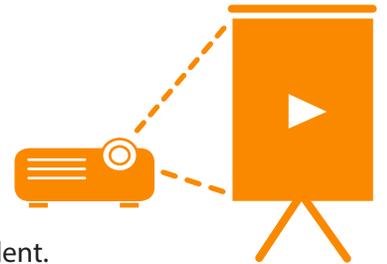
## First two weeks of basic welding programs

Virtual environments is far easier for beginning welders to adjust to welding for the very first time, while instructors can remain focused on skill development.



## Demonstration Tool

Using virtual welding gives the instructor an opportunity to do a weld and show the entire classroom on a projection screen rather than gathering in a welding booth. Virtual welding also allows for replaying a weld to continue the learning for each student.



## Competition within the classroom

Competitions encourage users to continue enhancing their form and technique; it enables them to build muscle memory and acts as a training aid for students to reference as they enter the shop to perform real welding. Plus, it's fun!



## Key welding program component

Integrating virtual welding throughout an entire semester, helps users increase their amount of simulated arc time, giving them more opportunities to build muscle memory and refine their techniques while saving on costly consumables.



**The guideWELD VR® welding simulator is a cost-effective tool that enables users to master basic skills and learn proper technique in a safe, virtual environment.**

## ► guideWELD® VR welding simulator

Enable users to refine basic welding skills, learn proper welding techniques and explore welding career paths while saving on costly consumables.

### Users experience:

- MIG and/or Stick welding methods
- A safe, virtual practice environment
- Welding on different joints, metal types and metal thicknesses
- Immediate feedback on work angle, travel angle, speed and nozzle-to-plate distance
- Instant assessment on individual welds

### Features:

- Recorded weld assessments
- 27 default Welding Procedure Specifications (WPS)
- Create custom WPS assignments for classroom needs
- 3 difficulty levels: Novice, Intermediate and Advanced
- Easy installation on Windows and MAC operating systems

### Package includes:\*

- Online access to: 13-lesson curriculum, teacher guide, administrator guide and student guide
- 1 guideWELD® VR workstation with choice of 1 interchangeable MIG or Stick welding simulator gun\*\*
- 3 welding joints (tee, lap and butt)
- 1 pair of welding gloves

**\$4.900<sup>00</sup>** guideWELD VR (1 welding gun option) – 56010101

**\$6.400<sup>00</sup>** guideWELD VR (both welding gun options)



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