

Complete welding gear on internet which uses the welding handle motion to simulate the virtual aluminum weld bead deposition with all its characteristics.



Universal Motion Detector compliant with all welding handle types.

Welding Virtual Reality Environment.

For all welding positions and preparation.

# Weld Into The Future

Online Welding Simulator  
A virtual training environment



~~Danger~~  
~~Darkness~~  
~~Dust~~

Safe  
Clean  
Quiet



~~Consumables~~  
Economic

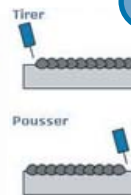
## Eduwelding +<sup>®</sup>

- Training Activities with ARC+<sup>®</sup> simulator.
- Basic Knowledge Acquisition.
- Learning of Psychomotor Skills.

▶ To acquire the psychomotor skills of a professional welder by controlling the welding variables.



▶ To develop the capacity to obtain various characteristics of an aluminum weld bead.



▶ To acquire control of the position and motion of a real welding handle through adjustments to the filler metal and gas combination.



123arc.com



Multi-Process

Convert your welding gun into an aluminum welding training tool.

**arc**® Complete welding equipment on internet which uses the mouse motion to simulate the aluminum weld bead deposition with all its characteristics.

Simulates the conditions and environment of aluminum welding.

Reproduces the physical, visible and invisible characteristics of the weld bead including the weld defects.

Monitors the position and the displacement of the welding handle in 3D space during welding.

Realizes radiography, macro-etch, diagnostic and comments.

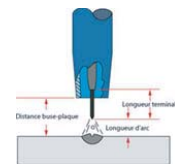
Allows electrical control parameters adjustment as well as the filler metal feeding.



## Eduwelding®

- Training Activities With The Simulator.
- Basic Knowledge Acquisition.
- Psychomotor Skills Acquisition.

▶ To get familiar with terms and concepts.



▶ To acquire the knowledge of the phenomenon, actions, positions and motions.

▶ To recognize the weld defects and their origins. To bring corrective measures.



▶ To recognize the quality standards.

▶ To test at will for a better forecasting of end results.



Beyond technology... **arc**<sup>+</sup>  
Simulation & Certification

### Testimony

"It is sparking without the sparks. The welder experiences the full blast of an arc without the corresponding danger ... and the experience is a lot safer."

**Richard Vandal**  
Industrial Welding Trainer  
Soudure Industrielle Richelieu

"Trying to advise a welder while he holds the lit arc is very challenging."

**Yvon Pinard**  
Welding Supervisor

"Immediate and significant welding materials' cost savings during the preliminary training drills for welding skills."

**Carol Vaillancourt**  
Professor of Welding-assembly  
Pavillon Montcalm, CS des Samares

"Learning the required ergonomics for healthy breathing during welding without the associated exposures is already a significant breakthrough. 3D training is the future."

**Claude Demers**  
Director of Training and Research  
BOC Canada

### Sponsors Research and Development

Awarded financial and technical support



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