



Technology meets training

Virtual Reality
Welding Simulator

SIMBOTT
VR ■ AR ■ MR Simulations

WHAT IS SIMBOTT?

SIMBOTT is a revolutionary digital experience that helps you acquire specialized vocational training in welding and spray painting techniques – all from safety and comfort of virtual reality simulators !

Our Immersive technology has created a seamless digital experience that bridges the global gap between tradesmen and the manufacturing industry.

We want to innovate tomorrow. We want to accelerate today. We want to transform trades training.



VALUES



Efficient Training



Safe Training



Cost Effective



Realistic Scenario



Faster Certification



Haptic Feedback



Improve Fine motor Skills



VALUE PROPOSITION



Skill Development

Traditional trade training's restrictive practices have lost their appeal to the youth. VR technology makes learning effective and interesting.

Education and Knowledge

We want to revolutionise the way people train for trades - re-integrating the youth and repurposing the knowledge of traditional professionals.



Heavy Industries

An innovative solution to industry-specific needs, this product helps develop niche welding skills based on your welding joints.



FACTS & FIGURES



No. of Practices

89%

Successful Faster Certification of Students

ZERO

Raw Material Consumption

OUR LASER FOCUSED APPROACH

A team that caters to you

Our dedicated team of trained professionals comprise of not only industry stalwarts, but also people with specialised knowledge in educational techniques, virtual reality technology, trades' training and research practices. The team has but one goal – to transform the trades' education sector and take it into the 21st century!

Technology that learns from you

In collaboration with highly reputed institutes, we have curated customised training packages that keep in mind the nuances of each trade. SIMBOTT is not only technologically advanced and accurate, it is reliable. By gamifying training, we have made the process cost-effective and efficient for our clients.

Where innovation meets reliability and results.

We know that in specialised skills like welding and spray painting, details are everything. We use kinaesthetics or 3D Haptic Touch technology to train users via applying force, experiencing vibrations and motions – all through VR. Our intuitive industry specific model increases your chance at certification and high-quality learning.

Skill

Imbibing a new generation in trades training, reinvigorating the industry once again

Reskill

Helping out-of-work tradesmen learn the latest skills in a high- volume competitive sector

Upskill

Honouring the experiences of traditional tradesmen via immersive learning built on archives



SIMBOTT WELDING SIMULATOR

We are an all-round optimised training service that helps you learn a variety of welding processes; GMAW, FCAW, SMAW, GTAW.

Additionally, our software also equips you with detailed welding bead analysis, recording student welding activity facility and monitoring overall class welding performance.

Coupled with our intuitive Virtual Reality and immersive haptic technology, you acquire real-world skills via virtual reality techniques.





WELDING SIMULATOR ATTRIBUTES

Hardware

- Real welding torches for a life-like welding experience
- Welding joints - Fillet, Lap, Pipe to Plate, Pipe to Pipe, Butt, V-groove
- Optimised to all welding positions and supports working stand



Software

- Optimum ease of use and understanding
- Geared for a variety of skill levels: basic, intermediate, advanced, and expert users
- Real time feedback with didactic learning, depth perception, sound, touch etc.
- Available in all languages



Result Analysis

- Generate detailed welding analysis
- Graphical reports and simulation video playback of fine motor movements, dexterity, as well as psycho-motor skills
- Organised system for monitoring student performance
- Incorporates all welding defects and critical parameters

WELDING SIMULATOR MODELS

Welding Simulator **Professional**

- Using highly immersive Virtual Reality Technology, this product translates the 5 senses to tangible training with haptics, giving you a quicker, more effective training experience
- Detailed welding analysis.
- Our most popular product, this simulator is the one-stop destination for all our needs





Welding Simulator Expert

- Fully customisable work joints and their material, that helps you monitor progress specific to your industry and optimise quality control.
- Bridges the gaps between nuanced requirements and intuitive skill learning
- An innovative solution to industry-specific needs, this product helps develop niche welding skills based on your welding joints.

OUR COMMITMENTS

Prompt Service

Global Customer support

Extended Warranty

Remote Maintenance

24*7 Customer Care Team

Eco-friendly Innovation

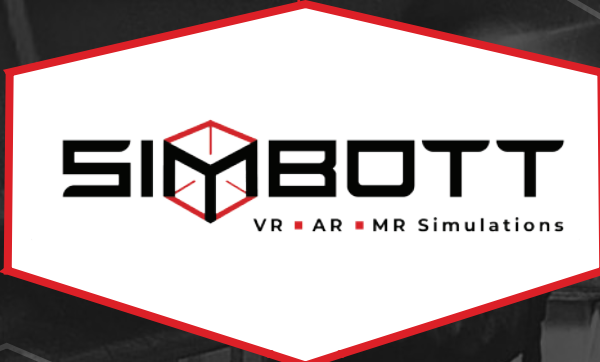
100% No-complaint Rate

Globalising Trade Skills

OUR GLOBAL PRESENCE



OUR CLIENTS



TECHNICAL SPECIFICATIONS

Simulation Methodology

Professional

Expert (Full Customized)

Virtual Reality Technology



Didactic and Virtual Simulation



Does not produce Real Arc and Fumes -
Green and Safe Technology



Technical Specifications & Dimensions

Input Supply: 230V, Single Phase, 50-60Hz, 5Amps



Machine Size



Screen Size : 15.6inch, Touchscreen



Work-stand Size



Required Desk Size



Processes

GMAW Process



Transfer Types : Short Arc, Axial Spray, Pulse

Wire Spool Selection



Wire Diameter Selection: 0.8mm, 1mm, 1.2mm



Wire Feed Speed Selection



Shielding Gas Flow Rate Selection



Short Arc & Long Arc



FCAW Process: Gas Shielded, Self Shielded



SMAW Process



Electrode Type Selection: Basic, Rutile, Cellulosic.
E6010, E6013, E7014, E7018.



Electrode Diameter Selection: 2.4mm, 3.2mm, 4mm



Electrode Retraction and Consumption



GTAW Process



With Filler Metal



Without Filler Metal



Filler Material Selection



Foot Pedal Operated (Optional)



Filler Rod Guidance and Aim



Work-piece/Coupons

Professional

Expert (Full Customized)

1. Flat Plate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Tee Joint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Lap Joint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Pipe to Pipe Joint - Pipe Butt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Pipe to Plate Joint - Pipe Fillet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. V-groove Flat Butt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Advanced Joints Package	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Customized Work-piece	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Joint Thickness

1.5mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
24mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Customized Joint Thickness	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Base Metal Material Selection

Carbon Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminium	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Customized Material	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Welding Positions & Work-stand

Vertical, Horizontal & Overhead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1F to 6F	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1G to 6G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flexible stand for all welding position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

TECHNICAL SPECIFICATIONS

Welding Techniques	Professional	Expert (Full Customized)
Forehand	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Backhand	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Straight Stringer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Weaving Patterns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Whip	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Welding Course Levels	Professional	Expert (Full Customized)
Basic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Primary	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Intermediate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advanced	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Professional	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Special Welding Features	Professional	Expert (Full Customized)
Multi Pass & Root Run	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Shielding Gas Selection	Professional	Expert (Full Customized)
100% CO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
75% Argon + 25% CO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98% Argon + 2% CO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
90% Helium + 7.5% Argon + 2.5% CO2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100% Argon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
75% Helium + 25% Argon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Customized	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Polarity Selection	Professional	Expert (Full Customized)
AC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DCEP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DCEN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Immersive Virtual Environments

Professional

Expert (Full Customized)

Welding Training Centre - Welding Booth



Oil Refinery and Gas Processing Plant



Shipyards & Shipbuilding



Automobile Manufacturing Plant



Customized Virtual Environment



Weld Bead Result Analysis

Graphical Representation with Scoring



Welding Travel Speed



Work Angle



Travel Angle



CTWD



Aim



On Weld Bead, Heat Graph Analysis with Scoring



Incomplete Fusion/Penetration



Spatter Analysis



Porosity



Concavity / Under fill



Convex / Excessive Reinforcement



Wrong Weld Size



Melt Through/Blow Through



Slag Inclusion



Discontinuity in Weld



Replay Mode - Visual Analysis



Rotate 360 degree viewing angle



Analyse Welding Path



Zoom In and Zoom Out during Welding



TECHNICAL SPECIFICATIONS

Visual Aids

Professional

Expert (Full Customized)

CTWD



Work Angle



Travel Angle



Aim



Welding Path



Filler Movement



Ghost Gun to follow



Weld Dashboard

Student Login Credentials



Student Training Record



Student Improvement Graph



Add Task and Exams for Students



Welding Journal Manage



Welding Consumption Meter



ROI Calculator



Welding Parameter Manage



Admin Account Manage



Student Account Manage



Facility to Download and Save Documents



Complete Offline Access



Additional Features & Support

Professional

Expert (Full Customized)

360 Degree Immersive Virtual Environment



Real Welding Torches for accurate and precise welding practices



Two Step & Four Step Control for GMAW and GTAW



Live Instant Correct Feedback



Welding Parameter Settings like Real Welding Machine settings



Default Welding Parameters for Ideal



Welding Guidance



Voltage and Amperage Setting



Remote Maintenance & Upgradation



Advanced and easy to use User Interface



Worldwide Service Support



Warranty Extension



Monthly Software Check & Maintenance



Training Guidance and Support



SIMBOTT

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SIMBOTT is a revolutionary digital experience that helps you acquire specialized vocational training in welding and spray painting techniques – all from the safety and comfort of virtual reality training tools! Our VR Technology has created a seamless digital experience that brings the gap between tradesman and the manufacturing industry, making it globally accessible.

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