



VIRTUAL WELDING TRAINING PROGRAM

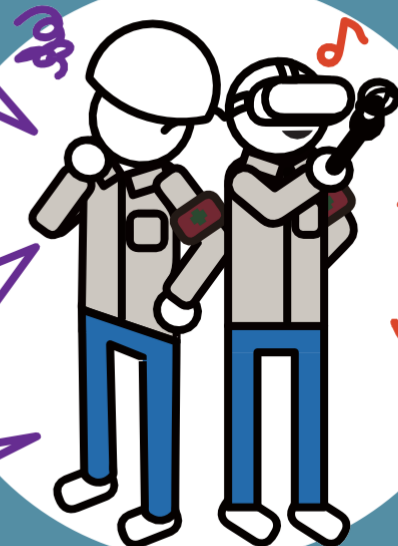
Virtual Welding Training Program in which a skilled welder's movements are reproduced

Have you encountered any difficulties in welding training?

The bright welding arc prevents trainees from viewing the welding directly.

It is difficult for beginners to learn a skillful welder's techniques. A skillful welder's head and/or hands prevent trainees from observing the important parts of their welding operation closely.

Additional training fees apply. Welding equipment required.



Panoramic view!

Up close and direct view of welding points. Playback as many times as you want.

Easy to understand

The welding area is clearly visible. Learning with the same eye level of skillful welders.

No additional training cost

Welding equipment, materials and instructors are not required. All you need is VR and attachments.

What is Virtual Welding Training Program?

This Virtual Welding Training Program solves the difficulty in acquiring welding skills by using virtual reality

Training content for a variety of situations

A wide variety of welding scenarios

Training can be conducted carefully and repeatedly with the adjustable level of difficulty that stimulate from the step when the trainee observing skillful welder's closely until the actual mask wearing.

Kind of welding method	SMAW, GMAW	FCAW	GTAW
Welding position	1G/1F · 2G/2F · 3G/3F		
Plate thickness	3/8", 3/4"	3/16"	
Diameter of a stick	1/8", 5/32"	.045"	3/32"
Shape of base plate	bead-on plate · Plate for horizontal fillet welding · Plate with groove		

Main Functions

- Learning with the same eye level of skillful welders.
- Set-up of welding materials
- Visibility adjustable
- Welding current adjustable
- Bar diameter and thickness change
- Reports and Log
- Multilingual support
- Point display



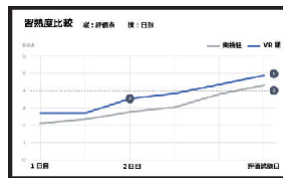
The arc length, speed, and bead direction of welding performed in the software are evaluated and immediately displayed as a number of points. By quantifying the level of acquisition, it is expected to motivate trainees to learn more. ※

※These scores are unique to NUP Welding Training and actual welding depending on a varied conditions. A high score does not guarantee passing the qualification exam or quality of welding.

Virtual Welding Training Program is recognized to be effective by professionals



Training incorporating VR was conducted for beginners at Kobelco E&M to compare with practical training. Virtual Welding Training Program has resulted in increased training speed than practical trainings.



We compared the number of days to achieve average score and the evaluation test scores for practical training group and virtual training group. Virtual training group scored higher than the average of practical training group.



Trainer's Comment

VR group members made a remarkable progress in learning welding skills. The final evaluation result indicates that the Virtual welding training is more effective. VR group members could enjoy the VR welding training, which had helped them to develop their interest in welding and improve their skills.

Check progress and save the training time

Training data is sent to the server and training hours and times are automatically totaled. Trainer can check progress and training effectiveness.

Check training data

By setting the trainee number, you can check the following items.

- Total start-up time
- Number of training
- Number of changing base material
- Number of changing welding electrode
- Estimated cost reduction



Optional Features

Display of photos on each bead appearance made at the beginning or in-between of training course

Welding progress can be compared with images



Contents of Virtual Welding Training



• VR headset



• Exclusive attachment
(One each for SMAW, GMAW & FCAW and GTAW)

Contact us

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