

# Analysis of Virtual Reality and Traditional Methods in Metal Arc Welding Education

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**Abstract:** *Through the use of computer-generated environments, virtual reality (VR) enables interdisciplinary collaborative engineering. For the common user, computer visuals become quite pleasant. It enables individuals to experience things that are not possible in a real-world setting and to perceive the world in new dimensions. Rather of just staring at an image on a display, virtual reality brings the user into an environment where they may engage with computer-based simulation. The foundation of a virtual reality environment is a computer screen or stereoscopic display. Users may interact with equipment like a keyboard, mouse, wired glove, goggles, etc. in a virtual world. A creative and practical answer might be offered by virtual reality technology, which also offers a variety of sophisticated, high-tech VR teaching solutions. The review of virtual reality, virtual reality welding, virtual reality systems, virtual reality applications, and virtual reality modeling language (VRML) is the main goal of this study. The conceptual design of the virtual welding platform is also emphasized in the article.*

**Keywords:** virtual reality modeling language

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