

عنوان مقاله:

Design, Production, and Evaluation of the Earth Well Model as a Valuable Tool in Electrical Safety Education Technology Using Kirkpatrick Model

محل انتشار:

فصلنامه آرشیو بهداشت حرفه ای، دوره 6، شماره 4 (سال: 1401)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Background: In today's academic society, the need for new educational methods and their application in teaching and learning seems highly necessary. The present study aims to design, produce, and evaluate the model of earth well with the Kirkpatrick model. Methods: The studied population included ۲۲ occupational health engineering students who had completed an electrical safety course the previous year. The present study was carried out in four phases of design, production, implementation, and evaluation of the educational program. The assessment was based on Kirkpatrick's model in four basic stages: reaction, learning, transfer (behavior), and results. Learning evaluation was done before and after the test using Kolmogorov-Smirnov and paired t-tests in SPSS. Results: The results demonstrated that people's satisfaction in achieving educational goals, attracting attention, and creating motivation for better learning and internalizing knowledge had values of ۶۳.۶%, ۵۹%, and ۵۴.۵%, respectively, and provided a high (high) satisfaction. The mean and standard deviation of the scores obtained before and after were ۳.۷۷ ± ۰.۵۷ and ۴.۴۷ ± ۰.۶۲ . Findings indicated a significant difference before and after practical training with the earth well model ($P < ۰.۰۰۱$). Conclusion: The design and production of the model have had a beneficial effect on the satisfaction, attitude, and behavior of the students. Therefore, it is recommended to pay more attention to the topics of new educational technologies in occupational health and safety, because these things facilitate students' learning and skills and make students' knowledge deeper.

کلمات کلیدی:

ارت، تکنولوژی آموزشی، ایمنی برق، مدل کرک پاتریک، طراحی، چاه
Educational Technology, Model, Safety, Occupational Health

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