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Using Kirkpatrick's model to measure the effect of radiation protection online workshop for radiation workers

Radiation offers extraordinary benefits for the diagnosis of a wide range of medical issues and the application of ionization and non-ionization radiation is widespread all over the world (1). The radiation protection of the workers is a significant issue in imaging and therapeutic departments which depends on the effective education systems. Radiation protection education plays a crucial role in worker protection and their performance (2). This study focused on the assessment of the role of radiation protection training classes in medical issues for the workers who had participated in radiation protection classes of the radiation research center (RRC) of Shiraz university. There are many methods to survey the effects of these classes on knowledge and Kirkpatrick is one of the best ones (3-4). Our study society contains 74 participants 62 of them were chosen based on the Morgan table in the reaction level. For assessment, the reaction level of this method, the level of participant satisfaction was surveyed using a questionnaire which contained the questions about the concept of the lessons, teaching (skill or Rhetorical of the teacher, his/her experience in this field), and class arrangement and discipline. This level includes 5 degrees and the average was estimated. For assessment of the role of the radiation protection class in the knowledge of the worker the pretest and post-tests were done and the results were analyzed based on the T-square method. The results of the T method were listed in Table 1. In all three factors of the concepts, teaching skill, and programming the class, the meaningful level of the T-test was estimated as sig=0 which means there weren't differences between estimated values and expected values. The estimated average shows the higher values compare to the reference average which is mean the effective role of the radiation classes. For evaluating the effect of the class on the knowledge the pre and post-tests were analyzed and the average grade was increased by 2.42 level (Table 2). Its means that Kirkpatrick had the desired results. There is abundant room to survey the other factors in 3 other levels of Kirkpatrick and implement the results of this kind of research on the education systems.

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