

Analysis of On-site Inspection Training Programmes and Methods

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Conducting an on-site inspection (OSI) requires a large variety of resources, i.e. human, financial, technical, etc. The preparation of human resources is a challenge due to the disciplinary diversity of equipment and procedures used. The design of a training programme for future surrogate inspectors is an important task because the human factor largely determines the effectiveness and success of the OSI. The goal of this work was to assess the effectiveness of the OSI Training Programme through a comparative analysis of applied approaches and their interrelationships. The comparative evaluation of online and on-site training methods was done based on six criteria: flexibility, practical skills training, theoretical knowledge, and training capacity. The weaknesses and strengths of each training method were identified. A new training concept including optimization of used methods was proposed, resulting in a 10–15% improvement in the effectiveness of the entire training programme on average. New ways of online learning and its integration with on-site courses were presented. The Kirkpatrick model and the results of the first in-field operation support refresher course were used to conduct a preliminary evaluation of the new OSI training programme, which demonstrated the concept's effectiveness and cost efficiency.

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Promotional text

The study presents comparative analysis of the OSI training programmes and approaches used. It shows that the Next Generation OSI (Linear) Training Programme focused on the deep synergy of online and on-site training, is efficient and cost effective.

Oral preference format

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