Developing a Hazard Perception Training for Train Drivers

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In this study, two training tasks for improving hazard perception skill were developed: the "Scenario Drawing Task" and the "Overlooking Experience Task". The "Scenario Drawing Task" helps trainees acquire knowledge of hazards through drawing a picture of their workplace and considering hazards from the viewpoints of human factors perspective. The "Overlooked Experience Task" enhances trainee's attitude to search for hazards through an overlooking experience. The results of experiments confirmed that the number of hazards extracted, and their viewpoints were more in the "Scenario Drawing Task" than in the hazard prediction task without drawing pictures. It was also confirmed that experiencing the "Overlooking Experience Task" enhanced the attitude to search for hazards.