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Abstract
The objective of this research was to analyze the influence of senior high school students' hazard risk perception on their safety behavior in the chemistry laboratories, and discussed the relationships among safety attitudes and the two mentioned above. This research was built based on the tenth grade students who have taken and finished the basic chemistry courses and the eleventh and twelfth graders of the natural science group in Tainan national high schools in the 96 school year. Stratified random sampling was adopted in terms of classes. One class was selected by random per grade, and a questionnaire was administered to them. The research tools included hazard risk perception scale, safety attitudes scale and safety behavior scale. The total valid returned questionnaire is 1,048 and the data was analyzed by SPSS 15.0 Chinese version software. The result revealed that:
1.Senior high school students from different personal backgrounds showed distinct variations in hazard risk perception in the chemistry laboratories.
2.Senior high school students due to different laboratory safety managements showed distinct variations in hazard risk perception in the chemistry laboratories.
3.There are relevant co-relations among senior high school students' hazard risk perception, safety attitudes and safety behavior in the chemistry laboratories.
4.Senior high school students' safety attitudes have major mediation effect on the hazard risk perception and the safety behavior prediction.
5.Senior high school students' personal backgrounds, chemistry laboratory safety managements and safety attitudes can be the strong indicators for prediction of safety behavior.
Finally, according to the result of the research, suggestions are offered to education administrations, instructors and the following researchers as references.
Advisory Committee - advisor

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