Using SCAT Analysis to Evaluate the Effects of Sailing Vessel Training on Emotional Quotient (EQ) Competencies

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INTRODUCTION

It is thought that not only improvement in the knowledge and skill of vessel operation has an effect, but the sail training has an effect in the improvement in competence relevant to emotions, such as leadership, teamwork, and communications skills. Authors showed that sailing vessel training was effective to EQ competences, such as leadership and teamwork in improvement (2015). Moreover, we showed that sailing vessel training was more effective as compared with motorship training (2016). First, we made the questionnaire the instructor and the trainee in order to investigate the contents which influence the training effect of a sailing vessel. Since the instructor and the trainee supposed that sailing duty is the contents of training which show the training effect most, in order to investigate the factor, we analysed the trainee's essay into sailing vessel training. In this study, the trainee's essay into sailing vessel training, especially sailing duty were analysed using SCAT (Steps for Coding and Theorization) which is the qualitative data analysis technique by 4 step coding. Since theorization by SCAT was tried, we report a result.

Investigation of the contents which influences the training effect of a sailing vessel

In order to investigate the contents which influence the training effect of sailing vessel training, the questionnaire was carried out to 72 trainees who trained by sailing vessel Kaiwo Maru just before the end of training. The same questionnaire was carried out to 18 training ship veteran instructors with 10 to 33 years of experience. A trainee's reply to the following questions is shown in Figure 1. Which is the contents which you consider that a trainee's improvement in EQ competencies has an effect? (multiple answers allowed) The most effective content which improved in EQ competencies from the figure was sailing duty training. "Training of climbing the mast" and "Important maintenance work such as masts paint" which are peculiar to a sailing vessel also are effective. On the other hand, although it is not peculiar to a sailing vessel, "the events, such as an athletic meeting," and "preparation of the event" are considered to be effective.
Qualitative analysis by SCAT

Since trainee answered that sailing duty training was the most effective, we carried out qualitative analysis of the essay into sailing duty training. Qualitative analysis was conducted using SCAT which is the qualitative data analysis technique by 4 step coding. <1> The first step extracts noteworthy words or phrases from the text which is the essay which the trainee wrote. <2> The next second step is paraphrasing of <1>. <3> Third step is conceptualizing out of the text that account for <2>. <4> The theme and constructs in consideration of context which are drawn from <3> are written out. Thus, storylines are described from four steps of coding results, and, finally theoretical description is performed. The following theoretical description was drawn by SCAT.

(1) The trainee realized a natural wonder and greatness by carrying out a sailing under canvas. It is the power of moving a huge ship. It is the power in which man does not reach simultaneously. And it is power which man is made to consider deeply.

(2) In order to carry out a sailing under canvas, the trainee keenly realized that teamwork and communication were indispensable.

Summary

It is shown that the sailing vessel training is effective in improvement in EQ competencies, and it is thought that sailing duty training is effective in the sailing vessel training. In sailing duty training, the trainee can feel nature closely and has great influence on them. Cooperation of many people is required for the voyage of a sailing vessel, and a trainee is asked for EQ competencies including teamwork in order to achieve sailing under canvas. Many elements which raise EQ capability are contained in the sailing vessel voyage.

REFERENCES

