# COMPARING THE EFFECT OF SIMULATION BASED LEARNING VERSUS ON - SCENE LEARNING IN SELF-EFFICACY ON MARINE CADETS

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## ABSTRACT

Training cadets on maritime colleges is different from one college to another. This research aims to explore the relationship between Self Efficacy and performance of cadets using R.A.D.A.R upon different types of learning of On-Scene, Simulator and both of them. The study had been conducted using a quasi-experimental design. Results show that there is a significant effect of Self Efficacy on performance of cadets using R.A.D.A.R in the presence of the three modules mentioned. Also, it was found that the effect of Self efficacy is the highest in case of receiving both courses of On-scene and simulator. In addition, it was found that GPA shows an insignificant effect on R.A.D.A.R scores in the presence of Self Efficacy. Besides, $R^2$ was found to be relatively small, which means that there may be other dimensions that may significantly impact R.A.D.A.R scores and explains the percentage of unexplained variation found.

**KEYWORDS:** Simulation Based Learning, on - Scene Learning, Self-Efficacy, International Convention on Standers of Training, Certification and Watch Keeping for Seafarers