



Effectiveness of Social Media in Monitoring Cadets Performance on Shipboard Training in Selected Maritime Schools Using System Quality Metrics

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Abstract

The Shipboard Training in the selected Maritime Institution uses a distributed documentation partially manual process in monitoring the performance of the cadets that most likely causes the delay and inconsistency of reports. Their Department uses any Social Media Website in assessing/validating the reports on the performance of the cadets. The Department of Shipboard Training receives a summary of the report through Social Media Website. Technology nowadays is overwhelming that resulted to change faster from a stand-alone system to a web based technology which is capable of supporting almost all of the computerized transactions using an open source mobile applet and Content Management Systems. Most of the organizations have embraced technology and have developed exceptional online programs that provide easy access and massive communication. These maritime schools entirely take after the IMO model courses as proclaimed by the 1978 tradition on Standards of Training, Certification and Watch keeping for seafarers (STCW), as altered in 1995, and are the main ones permitted by our legislature to lead and regulate baccalaureate courses with 3-year scholastics in addition to 1 year managed shipboard apprenticeship for deck and engine cadets.



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Introduction

The Shipboard Training in the selected Maritime Institution uses a distributed documentation partially manual process in monitoring the performance of the cadets that most likely causes the delay and inconsistency of reports. Their Department uses Cloud Based Application Performance Monitoring System in assessing/validating the reports on the performance of the cadets. The Shipboard Training

receives a summary of the report through Social Media Website which most often received after the cadets have finished their training, coming from the different shipping companies and will be assessed in the said application. Each performance of the cadets is automatically recorded in Cloud Based Application Performance Monitoring System. In fact the result of performance of the cadets should be received during the training. Also, one of the major

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reasons why there is a need to use a monitoring system is that, the Commission on Higher Education (CHED), Maritime Industry Authority (MARINA) and Norwegian Ship owners Association (NSA), needs a real time report system^{6,7,8,9,10}.

Technology nowadays is overwhelming that resulted to change faster from a stand-alone system to a web based technology which is capable of supporting almost all of the computerized transactions using Social Media Website. Most of the organizations have embraced technology and have developed exceptional online programs that provide easy access and massive communication. These maritime schools entirely take after the IMO model courses as proclaimed by the 1978 tradition on Standards of Training, Certification and Watch keeping for seafarers (STCW), as altered in 1995, and are the main ones permitted by our legislature to lead and regulate baccalaureate courses with 3-year scholastics in addition to 1 year managed shipboard apprenticeship for deck and motor cadets. The Commission on Higher Education (CHED) perceived and licensed these sea courses offered by appropriately approved scholarly establishments. On November 12, 1999, the CHED discharged the names of sea schools it considered to have passed the IMO-STCW benchmarks. This raised another contention on how CHED concocted their assessment convention. Beside true blue sea schools, there are sea preparing focuses that ought to be licensed by the Maritime Training Council (MTC). Both CHED and MTC screen the instructive environment without bounds world-class Filipino seafarers^{1,2,3,4}.

Statement of the Problem

The study focused in obtaining the effectiveness of the social media in performance monitoring system of

the 2nd class midshipmen cadets in selected maritime institution in Region III using Social Media.

Specifically, the study sought to find answers to the following questions:

- What is the profile of the respondents when group according to:
 - a. age;
 - b. sex;
 - c. course; and
 - d. occupation?
- What are the respondents' perceptions on the levels of effectiveness of the social media with regards to the following parameters:
 - a. accuracy;
 - b. security;
 - c. user friendliness; and
 - d. functionality?
- Is there a significant difference among the parameters across profile variables?
- Is there a significant relationship among the parameters of the level of effectiveness of the social media?

Table 1 shows the regression analysis of the relations. It can be seen from the table that $F=0.31$ which implies a low positive relationship between profile and system quality metrics, also 31% of the profile had an effect to the SQM while 10% of the SQM is being affected or explained by the profile variables. Since $F=3.66$, $sig=0.05$, there is a significant relationship between the profile and SQM. This implies that profile variables has an effect to the System Quality Metric.

Table 1: Significant Relationship among the Parameters of the Level of Effectiveness of the Social Model

Significant Relationship among the parameters of the Level of Effectiveness of the Social Model	R	R square	F	Sig.	Remarks
1	0.31	0.10	3.66	0.00	Significant

Salient Findings

The group according to school were composed of 63 or percentage of 36.4 cadets from Maritime School X; then PMMA with a frequency of 58 and percentage of 33.5 cadets; lastly Maritime School Y with frequency of 52 and percentage of 30.1 cadets in evaluating the effectiveness of social media in monitoring cadet's performance on shipboard.

There is a significant difference on the perception among the parameters on the levels of effectiveness of social media.

Conclusions

From the findings, the following conclusions which are binding on the respondents are arrived at:

- That most of the respondents are from Maritime School X with a frequency of 63 and percentage of 36.4; then PMMA with a frequency of 58 and percentage of 33.5; lastly Maritime School Y with frequency of 52 and percentage of 30.1. This implies that majority of the respondents came from Maritime School X, and according to the initial survey of the researcher, Maritime School X have more enrollees than the other two schools.
- Based on the results of the study, using Social Media on respondents' perception on the levels of effectiveness of the social media with regards to the following parameters perceives very effective.
- That there is a difference on the perception of the respondents on System Quality Metrics when grouped according to the parameters across profile variables.
- That there is a significant relationship among the parameters of the level of effectiveness of the social media between profile variables that has an effect to the System Quality Metrics.

Recommendations

In view of the findings and conclusions, the researcher would like to recommend the following:

- Social Media should be used at the Department of Shipboard Training to monitor the performance of the cadets while on boardship training in selected maritime schools in Region III.
- The implementation of the Social Media for

the Cadets in Selected Maritime Schools in Region III. It is expected that with continuous maintenance to ensure smooth operation.

- DST Staff should be aware and orient the cadets on how to use Social Media moderately. Monitor performance diligently and encourage cadets to indulge to a more fulfilling and productive activities. Social Media can be an aid on shipboard training activities. Social Media involved nowadays and nothing can keep them away to that,
- College officials can incorporate Social Media Technology in their curriculum. The College can facilitate the revision of their curriculum to adapt to the changing needs of the classroom activities. Social Media offers a wide range of opportunity to the students of the said department. the proper way of using Social Media and to practice what they have learned by developing applications that can be used in the Social Media.
- Research undertaking must be done to further improve its features and capabilities.

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