

RESTRICTED

ABSTRACT

The rapid development of technology has provided organizations with a variety of recent efficiencies that pose a significant threat to information and data. Cyber security means protecting systems, data, and networks in cyber space from malicious attacks. This is a significant problem for all organizations. The purpose of this study is to investigate human behaviour factors that affect in cyber space in Sri Lanka Navy (SLN) and assess whether they could be considered more appropriately in the implementation of security practices in Sri Lanka Navy. Human activity is always a threat to the security chain and actions are associated with all aspects that can reduce human threats as much as possible.

To achieve the research objectives, researcher conducted a review of literature pertaining to the human behaviour in cyber security. Then the researcher identified few key factors which are influenced to effective cyber security operation due to human behaviour as lack of knowledge, beliefs, behaviours, use of technology and motivation. Then the researcher has tested these factors how influential towards the cyber security in Sri Lanka Navy. The researcher selected 150 naval officers from various bases and branches to collect data and these respondents are taken as the sample of the study. Structured questionnaires distributed among them to collect data. The collected data was analysed through SPSS software and MS Excel and derived results presented through graphs, charts and tables. According to the findings of the study, researcher revealed that all formulated hypotheses are accepted and lack of knowledge, beliefs, behaviours, use of technology and motivation factors are significantly influences on effective cyber security operations in Sri Lanka Navy. The research study found that training, implementing and empowering cyber related policies and access control approaches are almost the only effective means of protection from social threats in cyber domain.

Key Words: Cyber security, Human behaviour, Social engineering attack