ABSTRACT

In an agency/company, there are risks that can be prevented by risk management. The risk management adopted using the ISO 31000:2018 standard was analyzed at PT. Kereta Api Indonesia Bandung on the SAP LAM module application in the asset and infrastructure management system to reduce work risks, weaknesses, and possible threats that can occur. The method used is interviews, questionnaires, and observation. Several questions were asked to informants related to SAP LAM users, and preventive measures against threats, risks, and weaknesses contained in the SAP LAM module application at PT. Kereta Api Indonesia Bandung. Then field observation activities are carried out to see weaknesses in the system directly in the hope of finding weaknesses in the unknown system. Literature study was conducted in order to facilitate data processing. The stages of this research use the stages of risk management in accordance with the ISO 31000 standard, namely risk identification, risk analysis, and risk evaluation. Risk identification is carried out using the OWASP ASVS standard. Then risk mitigation is carried out based on the results of the risk evaluation using the ISO 27001 standard. This study expects PT. Kereta Api Indonesia to be more alert and implement risk management to avoid work risks, due to the implementation of ISO 31000:2018 at PT. Kereta Api Indonesia is the right thing because PT. Kereta Api Indonesia is a BUMN(Badan Usaha Milik Negara) and in order to mitigate negative risks and increase work effectiveness, considering that assets and infrastructure are essential fields as well as SAP applications in an important agency, and because PT. Kereta Api Indonesia is a state-owned enterprise that applies ISO standards in their activities.

Keywords: iso 31000:2018, risk management, pt kereta api indonesia