

**FAKTOR-FAKTOR YANG MEMPENGARUHI KEBERKESANAN  
PELAKSANAAN PENGURUSAN RISIKO MAKMAL DAN BENGKEL**  
(Factors Affecting the Effectiveness of Laboratory and Workshop Risk Management Implementation)

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*ABSTRAK*

Risiko adalah kemungkinan atau bahaya kerugian dalam melakukan sesuatu tanpa mengambilkira kemungkinan bahaya itu. Risiko juga adalah gabungan kemungkinan dan kejadian bahaya yang mungkin akan berlaku. Pengurusan risiko merupakan satu prinsip yang bertujuan untuk mengenal pasti, menganalisis dan mengendalikan faktor risiko untuk meningkatkan peluang bagi mencapai kejayaan atau mengelak dari sebarang kegagalan yang berlaku. Sektor Pendidikan juga tidak terlepas daripada sebarang perkara yang melibatkan risiko dan pengurusan risiko terutamanya semasa sesi pengajaran dan pembelajaran (PdP) di makmal dan bengkel. Model KAP digunakan bagi menilai kaitan antara pengetahuan, sikap dan amalan risiko bagi kajian ini. Matlamat kajian ini adalah untuk mengukur pengetahuan, sikap dan kesedaran pelajar terhadap keberkesanan pelaksanaan pengurusan risiko makmal dan bengkel. Kedua, mengenalpasti tahap pengetahuan, sikap, kesedaran pelajar dan keberkesanan pelaksanaan pengurusan risiko makmal dan bengkel dalam merentas faktor demografi. Ketiga, menilai pengaruh antara pengetahuan, sikap, dan kesedaran pelajar terhadap keberkesanan pelaksanaan pengurusan risiko makmal dan bengkel dengan menggunakan analisis regresi berganda. Dapatan kajian menunjukkan bahawa pengaruh yang besar antara faktor pengetahuan, sikap dan kesedaran pelajar terhadap keberkesanan pelaksanaan pengurusan risiko makmal dan bengkel. Pendekatan pengurusan risiko yang berkesan dapat membantu institusi pendidikan menghadapi ancaman kampus atau komuniti berdasarkan kepada pelan yang telah dibangunkan.

*Kata kunci:* risiko; pengurusan risiko; model KAP

*ABSTRACT*

Risk is the possibility or danger of loss in doing something regardless of the possibility of that danger. Risk is also a combination of possible and dangerous events that may occur. Risk management is a principle that aims to identify, analyze, and control risk factors to increase the chances of achieving success or avoiding any failure that occurs. The Education Sector is also not exempt from any matter involving risk and risk management, especially during teaching and learning sessions (PdP) in laboratories and workshops. The KAP model was used to assess the relationship between knowledge, attitudes, and risk practices for this study. The aim of this study is to measure the knowledge, attitude, and awareness of students towards the effectiveness of the implementation of laboratory and workshop risk management. Second, identify the level of knowledge, attitudes, awareness of students and the effectiveness of the implementation of laboratory and workshop risk management across demographic factors. Third, evaluate the influence between students' knowledge, attitude, and awareness on the effectiveness of the implementation of laboratory and workshop risk management by using multiple regression analysis. The findings of the study show that there is a large influence between the factors of knowledge, attitude, and awareness of students on the effectiveness of the implementation of laboratory and workshop risk management. An effective risk management approach can help educational institutions face campus or community threats based on a plan that has been developed.

*Keywords:* risk; risk management; KAP model

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