ABSTRACT

This study aims to design a proposed mitigation plan for occupational accident risks at Instawash, a vehicle washing service business, using the Hazard Identification, Risk Assessment, and Risk Control (HIRARC) method combined with Job Safety Analysis (JSA). The implementation of Occupational Health and Safety (OHS) systems in the service sector, particularly in vehicle washing businesses, remains suboptimal despite the ongoing presence of accident risks. The research was conducted through primary data collection in the form of observations and interviews, as well as secondary data from documentation and scientific references. After identifying hazards and assessing risks using the HIRARC and JSA methods, proposed risk control measures were developed using a control hierarchy approach and validated with relevant stakeholders. The results show that out of 11 proposed risk control measures, 9 were accepted and deemed implementable. These proposals include administrative controls, the use of personal protective equipment (PPE), and engineering controls tailored to the specific working conditions at Instawash. This study is expected to improve OHS implementation in the service sector and serve as a guideline for developing effective and practical workplace risk mitigation systems.

Keywords: Occupational Health and Safety, HIRARC, JSA, risk mitigation.