

Analysis of Hazards Control and Condition in Laboratories/Workshops for Ensuring Work Health and Safety in Vocational High Schools

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Abstract

This research aims at revealing: (1) potential hazard types, (2) hazard risk level, (3) hazards control urgency by administrator, and (4) recommendation formulation of hazards control which should be conducted by administrator of Vocational High School's (Sekolah Menengah Kejuruan/SMK) laboratories/workshops.

Survey research was conducted, in which data were collected by Hazard Identification Check List from International Labour Organisation, Interview with administrator to gain information of: hazard types and risks level, hazards control urgency. Data was validated through prudent evaluation with workshop administrator and analyzed by descriptive statistics.

The research result shows that (1) Hazard types in the Vocational High School's laboratories/workshops includes nine jobs related to: material handling, hand tools usage, machines protection, workplace design, lighting, working weather, noise control, vibration and electricity, working facility and working organization; (2) average risk level in Vocational High School's (Sekolah Menengah Kejuruan/SMK) laboratories/workshop includes: Not Hazardous (68 cases = 54 %), Need Treatment (43 cases = 34 %) and Need Prioritized Treatment (10 cases = 8 %), whereas the rest (6 cases = 4 %) were without data; (3) Highly urgent hazards control should be treated to: the risky condition needs prioritized corrective action as well as corrective action; maintaining and improving conditions which do not need corrective action; (4) Corrective action comprises stages as the following: determine the target, select the approach, determine the procedure and do evaluation continuously to the Work Health and Safety in laboratories and workshops.

Keywords:

hazard types and risks, hazards control, Vocational High School's laboratories/workshop