

Simulation of 5S Fabrication Workshop Development at Mechanical Engineering Education Program Using 3DS Max Application

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ABSTRACT

This study aims to reveal : (1) know the risks of hazard in Fabrication Workshop of Mechanical Engineering Education FT UNY , (2) recognize the application of the 5S concept for development Fabrication Workshop on Mechanical Engineering Education FT UNY , and (3) to determine Fabrication Workshop development on Mechanical Engineering Education FT UNY simulation using 3ds Max application .

This study is a research and development. Its implementation is done in two steps. The first step in the form of designing and manufacturing the product, in this case the product is simulated using an application development workshop fabrication 3DS Max . Next is a test product , namely embedding media fabrication workshop for simulation development policies in the use of workshops.

The conclusion to be derived from this study are: (1) the risk of hazard in Fabrication Workshop on Mechanical Engineering Education FT UNY be dangerous machine noise, strong light , harmful gases and mechanical hazards from falling objects and moving objects , (2) the application of the 5S concept , EHS and Ergonomics necessary and beneficial to maintain good order, efficiency and discipline of work , prevent and minimize work accidents and improve the health and safety factors , the effectiveness of work and provide a sense of comfort when doing practical activities and learn at the workshop fabrication , (3) fabrication workshop development on Mechanical Engineering Education Program FTUNY by simulation application for 3DS Max beneficial aspects of the teaching-learning process of 5S, EHS and Ergonomics , as well as a reference in developing a plan over the workshop .

Keywords : 3Ds Max, fabrication workshop development