

ABSTRACT

Now days the tools of machine is very needed in the industry of manufacture. Every tool of machine needs special handling. CNC Router machine is one of machine that is haven by Process Manufacture Lab, but the facility that is used does not apply standard in the practical work yet. According to ergonomics concept, a product or workstation can be said work clearly if it has fulfill some criteria that is EASNE (Efektif, Aman, Sehat, Nyaman, and Efisien)

Based on the standard of job safety in the laboratory by ILO and machinery by AS 2048, CNC Router machine workstation in the Process Manufacture Lab has some demerits that is: (1) There is no guard. (2) There is no any sign that adequate to guarantee the safety in the working area. (3). There is no safe storage for tools. (4) The area of storage is unmarked, whereas talking about the comfort it has been there is complaint that there is fatigue in neck area, back and waist that show that the design of the table is not appropriate with antropometri.

The aim of this research is to repair for CNC Router workstation plan that is appropriate with the standard of security and the pleasant of EFD method. EFD is the development of QFD that is by adding the new connection between what the consumers want and the product of the ergonomics aspect. The attribute of product that is used is relegated from the aspect of security and the pleasant. So, based on the standard of security, it can be known the standard of the product, then the design of the table CNC Router is basically made from the standard product that is not fulfill. CNC Router workstation that is produced by having more safe specification, the available of the book instruction, the book instruction of the machine danger, the book instruction of how to operate the machine and the product is more ergonomics. Based on the method of antropometri, the standard of needing about product ergonomics, totally workstation has 187x113x 180 (cm) dimensions.

Keyword: Ergonomic Function Deployment (EFD), security, pleasant, workstation CNC Router, antropometri.