

PKM QUALITY IMPROVEMENT OF WOODCRAFT THROUGH THE DESIGN AND CONSTRUCTION OF A WASTE FUEL STRAIGHTENING TOOL

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ABSTRACT

The poor quality of the wood material due to the high water content can cause failure of the resulting product (furniture), such as deformation that occurs due to curved wood. This problem is a review in the field of production that is urgent to be resolved by partners. An alternative solution to solve this problem is to develop a wood straightener which also reduces the water content as a basic material for making furniture. Another problem in the field of management faced by partners is the marketing of processed wood products. An alternative solution to address this problem is to plan an Android-based digital platform that functions as a media for marketing processed wood products by partners and for managing the use of tools collectively based on groups. Based on these problems, the solution offered is the provision of assistance with one (1) wood straightening tool and one (1) draft storyboard application based on Android. The output of the targeted activity is 1 scientific article in a national journal, as well as 1 video of the implementation of PkM on the Youtube channel, while the additional output is 1 granted HKI in the form of a manual for using a wood straightening tool, as well as increasing partner empowerment including: increasing production skills, increasing partner turnover, increasing production capacity, and improving product quality. The planned activities include: 1) cooperation stage, 2) design stage, 3) training stage, and 4) mentoring stage. In order to guarantee the success of all stages, a Kirkpatrick technique approach is used to evaluate activities.

Kata Kunci: *Community self-help groups, wood straightening tools, application storyboards*