

FABRICATION PROCESSES TRAINING OF PRODUCTION EQUIPMENTS FOR BAMBOO CRAFT'S SME IN MINGGIR, SLEMAN DISTRICT

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ABSTRACT

The purpose of community service (PPM) by Fabrication Processes Training of Production Equipment for Bamboo Craft's SME in Minggir, Sleman District is to produce equipment design and production machine to increase the SME's product quality and production. This activity implements techniques of equipment's fabrication process and machine which supports production activity.

The methods of training activities were carried out by dissemination, discussion and practical work to give a better understanding, apperception and attitude, and also to increase the production capacity. The training were focused on the design and fabrication process technique. Students of the Mechanical Engineering Education Department were involved in this community service activity to support the completion of the multi-function bamboo processing machine. The multi functionality consists of sawing machine, sandpaper and grinder in one equipment.

The dissemination in this PPM was attended by SME groups in the town of Brajan, Minggir, Sleman District. The event was limited to 20 participants only from the 5 SME partners. The training was carried out to improve the knowledge and skills of labor and was aimed so that they can finish production jobs. In addition, there was also training for the generation of equipment, tools and production machine design to increase the production of SME. The multifunction bamboo processing machine design has the specification of 10 inch saw diameter, 12 inch sandpaper, and 8 inch grinder. The dimension of the machine is 500 x 400 x 600 mm, electric power of 378 watt and 2800 RPM machine rotation. The training participants were able to implement fabrication process techniques. The improvement in production process was visible, moreover prior to this training the work was mainly done manually. From the interview with the machine users, the multifunction bamboo processing is able to decrease the production time by 20%.

Kata Kunci: training, fabrication process, production equipment, bamboo craft