

# **CNC PROGRAMMING TRAINING TO IMPROVE VOCATIONAL SCHOOL TEACHERS COMPETENCY**

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## **ABSTRACT**

The objectives of PPM activities are: (1) Conduct training for CNC machining teachers to improve competency, (2) Train vocational teachers who are beginners to prepare for the competency test of CNC turning machine operators, and (3) Train CNC SMK teachers to prepare machine operator competency tests CNC milling with programming using CAM.

The form of activities is the training and competency testing of CNC machine operators. The participants consisted of 9 vocational school teachers. Training and competency tests are held at the FT FT UNY laboratory. The training is carried out for 40 hours and the competency test is for 3 hours per participant.

The results of PPM activities are: (1) Provision of CNC machining knowledge and skills to vocational teachers can be implemented through CNC programming and operation training based on their initial knowledge, (2) Preparation of CNC machining competency test preparation for beginner CNC teachers is carried out by providing programmers basic knowledge , CNC machine settings, program inputs and workpiece making individually, and (3) Training in preparation of CNC and CAM machining competency tests for CNC teachers who already have the competency to operate CNC machines is carried out mainly to explore making programs with CAM, machine settings, and manufacturing workpieces on CNC machines individually.

Kata Kunci: *Training, competence, machining, CNC*