

# **CAD-CAM Workshop for CNC Milling Programming in preparation for LKS Vocational Schools in Yogyakarta**

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## **ABSTRACT**

The results of the implementation of the Yogyakarta Provincial Student Competency Competition (LKS) in 2017-2018, especially in the CNC competition field, showed that more than 50% of participants failed to produce the final workpiece product. This is because the level of competency of students of LKS participants does not meet the standards. The purpose of this PPM implementation is to implement a mentoring model of LKS preparation for CNC Milling competition that is focused and optimal. PPM activities are carried out by holding workshops and training for 2 days or 16 hours. Forms of activities in the form of discussions with teachers accompanying LKS activities and also the practice of mentoring to students who are prospective LKS participants. The discussion material consisted of: (1) competency surgery for LKS questions in 2017, (2) CNC programming simulations using MasterCAM and Swansoft, (3) introduction of CNC machines, (4) deepening of safe and secure settings for tools and zero points. Participants in the training workshop were 30 participants consisting of CNC machining teachers from vocational schools, students of LKS participants, CNC machine technicians from the BLPT. The resource person was one practitioner from the industry and five members of the UNY PPM FT team.

The results obtained from this PPM activity are the implementation of an effective, focused and optimal mentoring model to prepare for the implementation of the 2018 LKS, especially in the CNC Milling competition.

*Kata Kunci: CAD-CAM Workshop, CNC Milling Programming, LKS preparation assistance model*