

## **The Design of Short Course Training on Computerized Wood Working Machine for Rubber Wood Industry**

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### **ABSTRACT**

This research is to design short course training on computerized wood working machine for rubber wood industry. This survey research was done by surveying the needs of rubber wood industry from 15 sample groups.

The result of the research shows the needs for the courses which are categorized for two levels: 240 hours of training for skilled workers and 200 hours of training for technicians. The ratio of time needed for training theoretically and practically is differed. For skilled workers, the ratio will be 30:70 and for technician, the ratio will be 50:50. The contents of the two levels consist of 8 chapters: the basis knowledge of CNC, CNC Lathe, CNC Routing/Milling, CAD, CAD/CAM, Tools Technology, CNC System Selection and Jig and Fixture Design. The contents needed and the time allocated for theory and practice are correlated. Besides, by using the relation of learning theory, the objectives, the explanation and the lesson units of the course, the objectives and the procedures of training and also the evaluation of each level are specified.

The result of the evaluation of the course from the sample groups of technicians shows that only the content of CNC Routing/Milling, the improvement after the training is obviously increased. That is 69%.

The results of the evaluation of the courses from judgement and the questionnaire done by the specialists in the field of rubber wood industry shows that the percentage of the course quality, efficiency and achievement are 76, 87 and 75 respectively. Whereas the results obtained by those in the academic field are 82%, 80% and 87%.

However, the course will be achieved as the objectives depending on four factors: the trainer, the trainees, the course and the contents. Moreover, the course is also the factor leading to the achievement of this research.