

PREPARATION FOR CONDUCTING D4 STUDY PROGRAM IN HEAVY EQUIPMENT FIELD IN FACULTY OF ENGINEERING UNY

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ABSTRACT

This study aims to: (1) Conduct a need analysis to establish D4 Heavy Equipment study program. (2) To know the readiness of the automotive engineering education department to open D4 Heavy Equipment Study Program.

This research used evaluation research method with discrepancy approach. The research was conducted by analyzing the readiness of FT UNY to fulfill Human Resource aspect, infrastructure aspect, and education facilities aspect in the implementation of D4 of Heavy Equipment Engineering. The reference in determining the condition is ideally analyzed from the training curriculum in the industry and the D4 Heavy Engineering Engineering Curriculum program from the college that has opened the D4 Engineering Program of Heavy Equipment.

Based on data analysis, the results obtained include: (1) D4 Requirement of Heavy Equipment Engineering from the aspect of human resources, infrastructure, and educational facilities referring to the industrial training curriculum as well as the D4 curriculum of other Heavy Equipment Engineering means that the ideal HR for D4 Engineering of Heavy Equipment must: (a) have minimum academic qualification, (b) have a professional competency in the field of equipment, (c) have training experience and (d) have a competency certificate / training in the field of equipment. From the aspect of infrastructure needed space theory and 7 laboratories and toilets, lecturers room, tool room and materials, technician room, and warehouse. From education facilities, need object training, space theory equipment, tools of practice, and educational display. (2) Department of Automotive Engineering Education FT UNY is not ready to establish D4 Engineering Program Heavy Equipment, because seen from the readiness of human resources, infrastructure, and educational facilities are still in predicate not ready. Based on the aspect of human resources, lecturers have percentage of readiness 33% (low readiness), technician's staff is still 0% (very low readiness), percentage of readiness of education infrastructure (laboratory / workshop) 16.67% (very low readiness), and percentage of readiness of facilities education in the form of media / training object of 20.43% (very low readiness) and a tool of 3.57% (very low readiness).

Kata Kunci: *Readiness to open the study program, Heavy Equipment engineering*