

ANALYSIS OF PTSP CURRICULUM CONTENT ON THE COMPETENCY OF CIVIL ENGINEERING

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ABSTRACT

This study aims to reveal: 1) a portrait of the curriculum of the Civil Engineering and Planning Education Study Program, Faculty of Engineering, Yogyakarta State University in 2020; 2) a portrait of the competence of construction service industry workers who have SKA in the field of civil engineering; 3) a portrait of the competence of construction service industry workers who have SKT in the civil engineering field; 4) matching workforce competency units that have SKA and SKT with PTSP, FT, UNY study programs; and 5) matching workforce competency units that have SKA and SKT with the Special Learning Outcomes of PTSP, FT, UNY Study Program graduates.

This research is a qualitative research with a survey approach to determine the real competencies needed by skilled and skilled workers in the field. Broadly speaking, the implementation steps of DaCum in this study consist of 5 steps including: curriculum orientation, situation analysis, competency categorization, identification of special competencies, and competency matching. This research took place in the province of the Special Region of Yogyakarta by involving government agencies and the world of business / industry that have a relationship with expert and skilled certification in the civil engineering workforce. This research was conducted for 5 (five) months. The subjects of this research are practitioners from government agencies such as: Construction Services Guarantee Agency (LPJK) as well as from Business / Industry agencies such as Planning Consultant Services, Supervisory Consultant Services, and Contractors.

The results of this research can be seen: 1) a portrait of the curriculum of the PTSP, FT, UNY Study Program in 2020 is divided into competencies in University, Faculty, Education, and Civil Engineering courses in accordance with the Independent Learning-Campus Independent Curriculum Policy; 2) a portrait of the competence of construction service industry workers who have SKA in the field of civil engineering, consisting of: Building Engineering Expert, Construction K3 Expert, Young Road Engineering Expert, Construction Management Expert; 3) a portrait of the competence of the construction service industry workforce who has SKT in the field of civil engineering consisting of: Architectural Drawer, Building Quantity Surveyor, Road and Bridge Drawer, Building Executor, Road Work Field Officer, Quantity Surveyor, K3 Supervisor, Building Supervisors, and Asphalt Concrete Testing Technicians; 4) unit results of matching workforce competencies who have SKA and SKT with the courses required by PTSP Study Program students include: Construction Management, Structure Analysis, Building Materials, Concrete Structures, Estimated Construction Costs, Steel Structures, Wood Structures, CAD, Practices Industry, Building Modeling and Information, K3LH, Concrete Work Practices, Timber Work Practices, Road and Bridge Maintenance Engineering, Road and Bridge Construction, and Soil Mechanics; 5) unit results of matching workforce competencies who have SKA and SKT with CPK PTSP Study Program graduates still need to increase the competence of Construction Management Experts, Road Engineers, Road and Bridge Surveyors, Job Field Implementers, and Quantity Surveyors

Kata Kunci: *competence, curriculum, Civil Engineering*