

Development of Competency Standards Model for the Auto Mechanics Department in Vocational High Schools

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Abstract — This research aimed at exploring how to establish an appropriate competency standards model for the department of auto mechanics in the vocational high schools. Such a model can help the auto mechanics departments in the vocational and technical education system to train students that meet the quantity and quality demands of auto industry for manpower. The research goals were 1) to discuss the importance of competency standards, 2) to probe into the feasibility of functional analysis and 3) to develop a functional map for the trade of auto mechanics.

This research analyzed the basic and professional competency standards for the trade of auto mechanics through functional analyses. It collected literatures relating to the knowledge and skills needed in the profession, held expert interviews, and conducted functional analyses. Then it proposed feasible schemes for vocational schools to develop curricula that can help supply talents that auto industry needs. Literature analysis and functional analysis are two major methods, among others, used in this research.

Index Terms — senior vocational high school, department of auto mechanics, competency standards