

Mapping of Psychomotor Skills in Automotive Technology in Malaysian Vocational College Curriculum: A Preliminary Study

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ABSTRACT

Hands-on training is important in vocational education. Through the concept of learning by doing, students' skills can be developed, improved and applied in the real professional working world. The learning process involves three overlapping domains — cognitive, affective and psychomotor. However, students' ability to perform various practical tasks is related to the psychomotor domain. Hence, this article discussed the psychomotor competency of the students in the automotive course in Malaysian vocational colleges. The psychomotor domain of the Bloom Taxonomy was adopted in this study. This case study involved document analysis on the psychomotor domain mapping with the module of Manual Transmission in Automotive Technology program. Two experts were selected to confirm the psychomotor levels proposed by the researchers for learning outcomes in Manual Transmission course module. The results show that the psychomotor skills levels can be determined for Manual Transmission course in the vocational college's curriculum. Analyses were conducted for each psychomotor level with detailed example for activities in that level. The preliminary findings are proposed to be applied in teaching and learning processes in automotive courses to enhance students' competency in their practical skills.

Keywords: Psychomotor domain, automotive technology, practical training and skills, vocational colleges, Malaysia