

ABSTRACTS

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E.O. Modlo

COMPETENCE OF BACHELOR IN ELECTROMECHANICS IN SIMULATION

The article is devoted to communication competence in modeling with other competences of Bachelor in Electromechanics, its structure and the contribution of components in the formation of competence. The approaches to defining competence of bachelor-electrician are determined. A system of competencies is suggested. In order to determine the inclusion of each of the selected competencies in the formation of competence of Bachelor in Electromechanics, experts' opinions were surveyed. The goals were to determine the structure and content of the bachelor's in Electromechanics competence in modeling. The research focus was to research the relationship of competence in modeling with other competencies of Bachelor of Electromechanics, its structure and the contribution of components in the formation of competence. The object of the research was Bachelor's in Electromechanics learning process. The subject of the research was the theoretical base of expertise of Bachelors in Electromechanics in modeling. The research methods used were: theoretical – analysis of scientific sources concerning the study, classification, specification and synthesis of theoretical, empirical, and experimental data, theoretical design and simulation of competencies of bachelor-electrician in modeling, analysis, synthesis, abstraction, induction, deduction, systematization and classification of results of theoretical research; empirical – the current state of research training in electromechanics, monitoring, summarizing domestic and overseas teaching experience, expert evaluation. The results of the research were the connection of competence in modeling with other competencies of Bachelor in Electromechanics, its structure and the contribution of components in the formation of competence. The structure and content of the electrician's competence in modeling were defined. The principal conclusions and recommendations were: the system of competence in electromechanics in modeling involves three groups of competencies: the general scientific, common professional, and specific professional ones. The formation of competence of Bachelor in Electromechanics in simulation cycle starts in mathematical and natural-scientific training (the leading one is general scientific competence) and continues in the cycle of professional and practical training (the leading ones are common professional and specific professional competencies).

Key words: competence, competency system, electromechanics, modeling.