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Information, knowledge and competence are becoming increasingly important in the modern production processes. In the article, competence is considered as a combination of the ability to perceive, understand and use information based on existing knowledge. The competency-based education for the engineering specialists training is substantiated by the authors. To estimate the components of competence in decision-making and determine the factors of its formation, an appropriate questionnaire was developed. According to the survey results, the most and least important factors for the formation of competence in decision-making were identified. Processing of the survey results was carried out by using the basic principles of the applied measurements theory. Based on the results obtained, competency profiles in decision-making on components and formation factors were determined. The proposed methodological approach to estimate competence in decision-making allows revealing reserves of some of its characteristics development and can be implemented in the HEIs' activities for the future specialist's formation.

Keywords: information, knowledge, competence, competence profile.