

METHODOLOGY DETERMINATION OF EDUCATING OF FUTURE ENGINEERS ON AUTOMATION OF GRIDS

In the article the existent problems of professional preparation of engineers are indicated on automation of grids that can be decided by means of realization of competence-based approach in educating. Competence-based approach is oriented on forming of professional competences in the process of educating. In the article maintenance is certain professional competences engineer on automation of grids, namely operating, project, organizationally-administrative and research. The types of work within each competence is analyzed. It is shown that effective implementation of professional actions within the framework of operating competence requires establishing cause-and-effect connections of functioning of control system of object of grid. Project competence is associated with the establishment of cause-and-effect relationships of the control system of the object grid. Mastering the organizational and administrative and research competencies is not possible without establishing causality construction and operation of the control system of the object grid. The expediency of application of the causal training for future engineers on automation of grids on the basis of a causal model of knowledge is shown. The structural elements of the model are the concepts that are presented in the form of subsystems: the purpose, the principle of operation, the device and the parameters. Develop a causal model of knowledge of the operation and construction of power grid facilities management systems, which can be applied at all levels of detail. The models should serve as a methodological basis for the presentation of courses of training engineers on automation of grids.

Keywords: *professional competence, engineer on automation of grids, a causal model of knowledge system.*