

Annotation to discipline “Pipeline gas transportation”

Total work content of discipline learning is 3 points of credit (108 hours).

Purpose of discipline. To shape students' knowledge about modern technologies and processes relative to the calculations for the design of pipelines, and prepare to conduct manufacturing practices in the production and to further explore the disciplines related to the specialization of storage technology and transportation.

Tasks of discipline. To examine the purpose and structure of the gas pipeline, the characteristics of the gas and gas transportation process flow diagrams at different stages of the process of transportation, the method of choice of modern vehicles and justify their operational parameters; practice skills of designing and evaluating the organizational and technical level of technological schemes and means of transportation of natural gas.

Main didactic units (parts).

An overview of the pipeline transportation of gas.

The current state and problems of pipeline gas.

Structure and apparatus for gas transportation pipelines.

Fundamentals of calculating the parameters of gas pipelines.

Hydraulic calculation of the gas pipeline.

Thermal design of gas pipelines.

Features accurate calculation of optimum parameters of gas pipelines.