

Annotation to discipline “Transport Gas Production Complexes”

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

Purpose of discipline. Give future mining engineers - specialists of:

definition of the scheme of composition and structure of the transport complex of gas production, gas pipelines parameters with the elements of the foundations of mechanization technology selection protect the pipeline from corrosion, to determine the place of the accident and the appointment process of liquidation in the pipeline.

Tasks of discipline. Explore the technological bases of gas transportation through pipelines, facilities and structure of gas transmission systems and characteristics of linear pipeline, to master modern technologies of transport and storage of gas.

Main didactic units (parts).

Physical and thermodynamic properties of the transported natural gas requirements thereto.

The classification and composition of natural and synthetic gases, their physical parameters.

Engineering units used in the gas industry.

Methods for determination of physical and chemical parameters of the gas.

The calculation of the mass and volume of gas flow in the pipeline.

Preparation of gas to transport.

Method of calculating the parameters of a gas pipeline.

Daily, monthly, seasonal fluctuations in gas consumption and ways of compensation.

Storing gas.

Underground gas storage in the gas transmission facility.