

CHEMICAL ENGINEER I/IIKind of Work:

Professional work in the field of Chemical Engineering.

Distinguishing Features of Work:

An employee in this class is responsible for exercising controls over the operations of private companies engaged in petroleum refining and petrochemical plant operations in order to ensure that the best interest of the country is served. Work involves studying designs and/or modifications of plants submitted for government approval, verifying operation costs and economies of plant operations. Work entails the making of field and plant inspections. Assignments are received from a superior officer to whom unusual problems are referred. Work is performed with considerable independence within the framework of established policies and procedures and is reviewed by a superior through discussions and the analysis of periodic reports.

Examples of Work:

Ensures that companies granted pioneer status operate in accordance with agreements.

Checks and verifies operation costs and economics of plant operations.

Studies the designs and/or modifications of plants which are submitted to government for approval.

Inspects refinery and petrochemical plants to ensure safety of operations and adequate antipollution practices.

Co-ordinates routine and project work of the Petroleum Testing Laboratory.

Makes comprehensive studies on the control and accountability of petroleum products and prepares periodic summaries and reports on Refining and Petrochemical operations.

Verifies material flows through refineries and petrochemical plants.

Performs related work as may be required.

Required knowledges, Skills and Abilities:

Knowledge of principles and practices of chemical engineering and processing of petroleum and petrochemical operations.

Knowledge of the methods and techniques of petroleum refining operations.

Knowledge of the physiochemical reaction potential of petroleum and petroleum products.

Knowledge of governing petroleum and petrochemical laws.

Ability to determine the effectiveness of processing operations in the petroleum industry.

Ability to develop, evaluate and summarise technical engineering data and to prepare clear and concise reports.

Ability to establish and maintain effective working relationship with other employees and the public.

Minimum Experience and Training:

Training as evidenced by the B.Sc. degree in Oil Technology or in Chemical Engineering from a recognised college or university or the B.Sc. degree in one of the Physical Sciences supplemented by post graduate training in Petroleum Technology; or their equivalent.