

PETROLEUM CHEMISTKind of Work

Professional work in the field of Petroleum Chemistry.

Distinguishing Features of Work

An employee in this class is responsible for performing chemical and physical analysis of petroleum products, water, soil and rocks. Work also entails the supervision and training of a small group of sub-professional laboratory workers. Assignments are received either from a professional superior or in the form of written requests for specific laboratory tests on substances submitted. Routine tests are performed independently but assistance is received in respect of the more difficult tests from a professional superior who reviews work performed through reports, discussions and general observations.

Examples of Work

Performs chemical and physical analysis of petroleum products, water, soil and rocks.

Supervises and trains a small group of sub-professional laboratory workers.

Carries out laboratory tests of petroleum products to determine quality for royalty evaluation purposes.

Assists in the evaluation of new laboratory methods and prepares guidelines for Laboratory Technicians.

Assists in the evaluation of local and imported crudes for yield of products and petro-chemical potential of such products.

Assists in conducting Round Robin testing to determine whether companies are performing tests properly.

Conducts investigations into fiscalisation point to determine the best conditions for the particular type of crude.

Assists in the determination of the level of pollutants in effluent streams from refineries, offshore drilling plat-forms, producing fields and other areas.

Undertakes analysis of dispersants, sorbents and other substances suitable for use in Trinidad and Tobago in accordance with the National Oil Spill Plan.

Assists other professionals generally in refinery investigations.

Visits oil companies for revenue purposes.

Performs related work as required.

Required Knowledges, Skills and Abilities

Knowledge of the principles and practices of Petroleum Chemistry.

Knowledge of the principles and practices of analytical, physical, organic, inorganic and hydrocarbon chemistry.

Knowledge of the Petroleum Act.

Skill in the use/care/maintenance of laboratory instruments, equipment and materials.

Ability to establish and maintain effective working relationships with associates and the public.

Minimum Experience and Training

Training as evidenced by the B.Sc Degree from a recognised University with major courses in Chemistry, supplemented by a recognised post graduate qualification in Petroleum Chemistry, or its equivalent.

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