



# TESTING & INSPECTION OF **NATURAL GAS** **PIPELINE**

# About Phans4 :

Phans4 consulting is an inspection and testing agency employs qualified personnel who specialize in inspecting and testing mechanical equipment, Our experts are well qualified in relevant fields with international approved certifications to perform tests and inspections. They undergo continuous training to stay updated on the latest inspection techniques, testing methods, and regulatory requirements, Familiarity with Regulations and Codes. They all have experience working in relevant industries such as manufacturing, oil and gas, petrochemicals, power generation, or any other field involving mechanical equipment.



## TESTING & INSPECTION OF NATURAL GAS PIPELINE

Natural gas pipelines are crucial for supplying clean energy for various purposes. To maintain their safety and reliability, regular testing and inspection are essential. Natural gas pipeline testing inspection services offer various methods to assess pipeline integrity and identify potential issues. Some key services provided by these companies include testing and inspection for safe and reliable operation.

### Our Services:

#### HYDROSTATIC TESTING:

Hydrostatic testing is a widely used method for testing the strength and integrity of natural gas pipelines. In this process, the pipeline is filled with water and pressurized to a predetermined level. The pressure is then monitored for a specific period, usually 8 hours, to ensure that there are no leaks or failures within the pipeline.



#### ULTRASONIC TESTING:

Ultrasonic testing uses high-frequency sound waves to detect defects or flaws within the pipeline structure. This method is particularly useful for detecting cracks, corrosion, and other forms of damage that may not be visible to the naked eye. It can also be used to monitor the thickness of the pipeline walls, which is crucial for assessing its structural integrity.



## **MAGNETIC FLUX LEAKAGE TESTING:**

Magnetic flux leakage testing is another non-destructive method that is commonly used to detect corrosion in pipelines. It works by passing a magnetic field through the pipeline and measuring any disruptions in the field caused by defects in the metal. This method is particularly effective for detecting corrosion in the walls of the pipeline.



## **INTERNAL PIPELINE INSPECTIONS:**

Internal pipeline inspections involve sending a tool or device through the pipeline to assess its condition. This can include tools with cameras and sensors to provide a visual inspection of the inside of the pipeline. These inspections can identify potential issues such as corrosion, cracks, and blockages that may affect the pipeline's performance.

## **LEAK DETECTION:**

Natural gas pipelines must be free of any leaks to ensure the safety of the surrounding environment. Pipeline testing inspection services use various methods to detect and locate leaks, including pressure monitoring, acoustic sensors, and infrared cameras. These tests are critical for identifying and repairing any leaks before they become a safety hazard.



## **CORROSION MONITORING:**

Corrosion is a common and significant threat to the integrity of natural gas pipelines. Inspection services use specialized tools and techniques to monitor and assess corrosion levels within the pipeline, allowing them to identify areas that may require maintenance or repair.



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