



Position Qualification for Infrastructure Systems
Public Works

PIPELINE INSPECTOR

RESOURCE CATEGORY	Public Works
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Pipeline Inspector performs pipeline safety compliance inspections, evaluates pipeline operators, and investigates pipeline failures to increase the security of pipeline infrastructure
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. This position can be ordered as a single resource. 2. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation, and meals, prior to deployment 3. Requestor specifies any advanced levels or specific qualifications necessary based on incident needs

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	TYPE 3	NOTES
DESCRIPTION	Same as Type 2, PLUS: <ol style="list-style-type: none"> 1. Has supervisory oversight responsibilities 2. Leads on-site inspections and investigations of pipeline facilities involved in major accidents or failures 3. Leads studies and provides engineering analyses of pipeline safety issues 4. Monitors and analyzes program performance to determine trends, assess safety and integrity levels, and uncover necessary program policy changes 5. Proposes or develops changes to pipeline safety compliance program policies, practices, and guidance 	Same as Type 3, PLUS: <ol style="list-style-type: none"> 1. Conducts safety program reviews 2. Provides technical assistance to help resolve issues arising in the administration of the safety compliance program 3. Interprets and applies regulations and monitoring requirements to the design, construction, operation, and maintenance of gas and liquid pipeline systems 4. Identifies potential areas for improvement in the design, construction, operation, and maintenance of gas and liquid pipeline systems 	<ol style="list-style-type: none"> 1. Conducts engineering analyses and evaluations of potential pipeline regulatory deficiencies 2. Performs field surveys and investigations to determine condition of pipeline facilities 3. Reviews the design and specifications of pipeline systems under construction or repair to ensure conformance with safety regulations; tasks may include the following: <ol style="list-style-type: none"> a. Evaluating projects to assess compliance with state safety regulations b. Ensuring that maintenance and repair schedules and procedures conform to safety requirements 	Not Specified
EDUCATION	Same as Type 2	Same as Type 3	Bachelor's degree in engineering, physical science, or related area	Experience can substitute for education at the discretion of the Authority Having Jurisdiction (AHJ).



Position Qualification for Infrastructure Systems
Public Works

COMPONENT	TYPE 1	TYPE 2	TYPE 3	NOTES
TRAINING	Same as Type 2	Same as Type 3	Completion of the following: 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-200: Basic Incident Command System for Initial Response, ICS-200 3. IS-700: National Incident Management System, An Introduction 4. IS-800: National Response Framework, An Introduction 5. Training in accordance with the United States Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration, Training and Qualification Standards	Not Specified
EXPERIENCE	Same as Type 2, PLUS: Knowledge, Skills, and Abilities: 1. Knowledge of risk management, pipeline integrity management, and management systems principles and practices 2. Knowledge of emergency response procedures 3. Knowledge of pipeline safety laws Experience: Three additional years of experience in the design or construction of pipeline facilities or structures	Same as Type 3, PLUS: Knowledge, Skills, and Abilities: 1. Knowledge of trends and conditions in the pipeline industry 2. Knowledge of laws and regulations that define the pipeline safety program Experience: One additional year of experience in the design or construction of pipeline facilities or structures	Knowledge, Skills, and Abilities: Knowledge of pipeline industry practice and operations relating to safety regulations and compliance Experience: One year of experience in the design or construction of pipeline facilities or structures	Not Specified
PHYSICAL / MEDICAL FITNESS	Same as Type 2	Same as Type 3	1. Moderate 2. Is able to work while wearing appropriate Personal Protective Equipment (PPE)	1. National Incident Management System (NIMS) Guideline for the National Qualification System (NQS) defines physical / medical fitness levels for NIMS positions. 2. PPE is mission specific and may vary by work environment; it includes protective footwear, protective clothing for skin exposure, eye and ear protection, respirators, gloves, and masks.
CURRENCY	Same as Type 2	Same as Type 3	Currently functions in this position	Not Specified
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Not Specified	Not Specified	Not Specified	Not Specified



Position Qualification for Infrastructure Systems
Public Works

NOTES

1. Nationally typed resources represent the minimum criteria for the associated component and capability.
2. This document contains references to non-Federal resources and materials. Such references do not constitute an endorsement by the U.S. government, or any of its employees, of the information or content which a non-Federal resource or material provides.

REFERENCES

1. FEMA, National Incident Management System (NIMS), October 2017
2. FEMA, NIMS Guideline for the National Qualification System, November 2017
3. FEMA, National Response Framework, October 2019
4. United States Department of Transportation Pipeline and Hazardous Materials Safety Administration, Training and Qualification Standards, latest edition adopted