

Port Authority of New York & New Jersey
Stationary/Watch Engineer
Candidate Information Bulletin

Thank you for your interest in the Port Authority of New York & New Jersey. As one of the premier public agencies in the nation, the Port Authority offers exciting career opportunities and competitive benefits to those job seekers who qualify to join our staff. The information below provides information about the Stationary/Watch Engineer job as well as information about the selection process.

JOB INFORMATION

WHAT ARE THE MAJOR RESPONSIBILITIES OF THE JOB?

The Stationary/Watch Engineer job title requires a 40-hour work week and is required to work rotating shifts, nights, weekends and holidays, overtime on short notice, and during inclement weather. You must be able to obtain and maintain a Class B or above Commercial Driver's License (CDL) with medical card and endorsements.

The Stationary/Watch Engineer is a lead-capacity job title that requires incumbents to perform a variety of journey-level duties in the installation, operation, maintenance, repair and alteration of utility systems and related auxiliary equipment. Such equipment includes, but is not limited to, air conditioning and ventilation systems, pneumatic and electrical controls, high- and low-pressure boilers, high temperature hot water generators, large capacity chiller units, and fire protection systems. Incumbents will also troubleshoot and diagnose problems on a variety of plant/facility systems and are responsible for the security and satisfactory operation of a plant/facility on all off tours. Shift work may be required.

WHAT ARE THE MINIMUM REQUIREMENTS?

Candidates must meet all of the qualifications below:

- High School Diploma or GED
- Valid Driver's License
- Must be able to obtain and maintain a Commercial Driver's License (CDL) with endorsements
- Possess a current valid New York Fire Department Certificate of Fitness for Standpipe or Sprinkler Operation **OR** a Black Seal Fireman's License issued by the State of New Jersey
- Possess a current valid U.S. Environmental Protection Agency (EPA) Refrigerant Technician's Certificate (RTC)
- Possess a current valid High Pressure Boiler Operator's License issued by the City of New York **OR** a New Jersey Blue Seal Boiler Operator's License
- Possess a current valid New York City Refrigeration Machine Operator's License **OR** a Blue Seal Refrigeration Machine Operator's License (Class II) issued by the State of New Jersey

- At least three years of full time paid work experience as a journey-level Stationary/Watch Engineer.
- Qualify on the Stationary/Watch Engineer Written Test and Practical Test
- Qualify on a thorough background check
- Qualify on a pre-hire medical evaluation

Failure to meet any of the requirements above will disqualify candidates from consideration.

WHERE WOULD I BE WORKING?

Depending on the location where vacancies exist, qualified candidates may be assigned to work at any of the Port Authority facilities below:

- John F. Kennedy International Airport
- Newark Liberty International Airport
- LaGuardia Airport
- George Washington Bridge
- Lincoln Tunnel
- Holland Tunnel
- Staten Island Bridges (Goethals, Outerbridge Crossing, Bayonne Bridge)
- Port Authority Bus Terminal
- New York Marine Terminal
- New Jersey Marine Terminal

HOW MUCH DOES THE JOB PAY?

\$34.53 per Hour (subject to collective bargaining agreement)

DOES THE POSITION OFFER BENEFITS?

Yes. In addition to full health benefits, the position provides all tools, equipment and uniforms needed for the job.

WHAT CAREER OPPORTUNITIES EXIST FROM THIS POSITION?

Port Authority employees are eligible to participate in internal promotional evaluations for positions for which they meet the requirements. Opportunities exist in the Structural, Mechanical, Electrical, Utility Systems, Buildings & Grounds, Automotive and General Maintenance fields and well as for maintenance supervisory positions.

SELECTION PROCESS

HOW DOES THE SELECTION PROCESS WORK?

The selection process for the Stationary/Watch Engineer job title consists of following components:

1. Written Examination
2. Practical Examination
3. Background Check and Medical Exam

Each component is described in further detail below:

Written Examination

Exam Delivery Format: Computer-Based

Number of Questions: 120

Question Format: Multiple-Choice

Time Limit: 2 Hours

Exam Content: The Stationary/Watch Engineer Written Examination is designed to assess candidates knowledge/ability in the following areas:

- Heating and Heating Systems
- A/C and Refrigeration Systems
- Auxiliary Equipment
- Pumps and Controls
- Fire Protection, Fire Safety and Sprinkler Systems
- HVAC Electrical Systems
- Stationary Engineering Systems – Operation, Maintenance and Repair

Exam Results: Candidates will receive test results at the test site immediately after completing the examination

Fee: \$25 non-refundable/non-transferable fee payable by MasterCard or Visa personal or pre-paid credit card is required

The testing fee will be waived for qualified candidates receiving one or more forms of public assistance listed below who provide the required documentation.

- **General Assistance** – Please provide a copy of your ID card and documentation on letterhead from the social service agency in your state, dated within the past month.
- **Public Assistance in the form of Temporary Assistance for Needy Families (TANF)/Family Assistance or Safety Net Assistance** – Please provide a copy of your ID card and documentation on letterhead from the social service agency in your state, dated within the past month.
- **Eligible for Medicaid, or receiving Supplemental Security Income (SSI)** - Please provide a copy of your latest annual awards letter and a copy of your ID card that shows your Medicaid number.
- **Certified Job Training Partnership Act/Workforce Investment Act/WorkFirst NJ Act eligible through a state or local social service agency** – Please provide a copy of your ID card and documentation on letterhead from the social service agency in your state, dated within the past month.

Candidates who meet the waiver criteria identified above must send an e-mail to waiverrequest@panynj.gov for further information. **The e-mail must identify your First Name, Last Name, Program Name, Eligibility ID as listed in your Employment Testing Notice e-mail and contact phone number.**

Test Location: Prometric, Inc. Test Centers throughout New York and New Jersey. You can choose your test time and location when you register /schedule for testing through Prometric.

Click on the topic of interest below to view Prometric's answers to Frequently Asked Questions:

Prometric FAQs

Frequently asked questions

- [Prometric Testing Center Regulations](#)
- [Schedule, reschedule, cancel and confirmation](#)
- [Special Accommodations](#)
- [Payment](#)
- [Test site experience](#)
- [After the test](#)

Required Identification: One form of official, government issued photo identification

The examination is of a multiple choice format and is administered on a computer. Candidates may complete a tutorial that describes the procedures for the computer-based administration prior to beginning the exam. The time limit for the exam is 2 hours and 15 minutes. Candidates should be prepared to be at the test site for up to 3 hours, factoring in check-in, test administration, and check-out.

Only candidates who qualify on the Written Examination will be eligible to proceed to the next step in the Selection Process, the Practical Examination. You will receive your results at the test site immediately after completing the test.

Practical Examination

Candidates are typically scheduled for the Stationary/Watch Engineer Practical Examination within three months of qualifying on their Written Examination, depending on the hiring needs of the Agency.

Exam Delivery Format: Hands-on demonstration of skill/ability

Number of Test

Problems:

Time Limit: Each Test Problem has a time limit. Candidates should prepare to be at the test site for approximately 4 hours

Test Problems: Hands-on demonstration of the following skills/abilities: *

- **Working at Heights** tests your ability to climb and perform tasks at heights.
- **Troubleshooting a Rooftop Furnace Unit** requires the diagnosis, troubleshooting and repair of a non-functioning commercial heating unit.
- **Steel Pipe & Copper Pipe Loop** is the construction of a pipe loop following the specifications from a shop diagram and involves cutting, threading and soldering steel and copper pipe.
- **Installation of Heating Zones:** According to specifications you will be required to wire a thermostat, zone valves and auxiliary equipment on a simulated HVAC system.

In addition, candidates will participate in a Central Heating and Refrigeration Plant Operation Interview. This portion of the Watch Engineer performance test is designed to measure your knowledge regarding the safe operation and maintenance of a Central Heating and Refrigeration Plant, including its component equipment. This technical interview will measure your knowledge and ability in the operation of a Heating and Refrigeration Plant that contains 4 – 50 million BTU Hot Water Generators and 4 – 2000 ton Chiller Units.

* Number and nature of Test Problems is subject to change

Exam Results: Results for the Practical Examination are typically mailed to the address candidates provided when they applied to the position on the Port Authority website within approximately one month of the Practical Examination date.

Fee: None

Test Location: The practical test is normally held at the Port Authority Testing & Training Center at the address below. Parking is free.

Port Authority Testing and Training Center
ExpressPort Plaza
1160 McLester Street Unit #1
Elizabeth, New Jersey 07201

Required Identification: One form of official, government issued photo identification and Written Test qualification letter

Bring to the Test

Location: Candidates should wear normal work clothes, including work boots or safety shoes. Candidates should not bring any tools, books, equipment, etc. to the test. Personal protection equipment such as gloves or prescription safety glasses are allowed, but everything is also supplied at the test site.

Practical Examination

Raters: Candidates performance on Stationary/Watch Engineer Practical Examination test problems is rated by trained, experienced proctors with a background in the maintenance field. Only candidates who qualify on the Practical Examination are eligible to proceed to the next step in the Selection Process, the Background Check and Medical Exam.

Background Check and Medical Exam

The Background and Medical Check typically come at the time of a conditional job offer and are conducted concurrently. For the Background Check, the information a candidate submitted on their employment application is verified by a background check company, including education, employment history, driver's license, and criminal history. For the Medical Check, candidates are evaluated by the Port Authority's Office of Medical Services physicians to ensure that they can meet the qualifications of the job (with or without accommodation). We strongly encourage candidates to review the requirements for obtaining and maintaining a Commercial Driver's License.

Candidates who qualify on the written examination, practical examination, background check, and medical check are considered eligible to be considered for placement in the Stationary/Watch Engineer job title based on the hiring needs of the Agency. **However, qualification on the selection process does not guarantee placement into a vacant position.**

Question and Answer

ARE THERE ANY STUDY MATERIALS FOR THE EVALUATION PROCESS?

No. We expect candidates to demonstrate their knowledge/experience through the evaluation process.

HOW LONG DOES THE SELECTION PROCESS TAKE?

The timing is highly influenced by the hiring needs of the Agency for this position as well as the speed at which candidates background check information can be obtained/verified.

IF I QUALIFY ON THE EVALUATION PROCESS, HOW LONG DOES MY QUALIFICATION LAST?

Your qualification will remain for 1 year from the date you qualified on the Practical Test. This timeframe may be extended at the discretion of the Port Authority.

IF I QUALIFY ON THE EVALUATION PROCESS, IS IT ASSURED THAT I WILL GET HIRED?

No. Candidates who qualify on the written examination, practical examination, background check, and medical check are considered eligible to be considered for placement in the Stationary/Watch Engineer job title based on the hiring needs of the Agency. *However, qualification on the selection process does not guarantee placement into a vacant position.*