

CLASS TITLE: MARINE ENGINEER

CHARACTERISTICS OF THE CLASS

Under general supervision, coordinates and performs operation and maintenance functions related to the power machinery of City-owned tugboats; and performs related duties as required

ESSENTIAL DUTIES

- Operates tugboat propulsion plant, auxiliary power source and pumping machinery
- Inspects and maintains proper lubrication of all equipment, pumps and generators
- Repairs and adjusts equipment and machinery spaces as necessary
- Takes direction from tugboat pilot regarding the signaling, starting and shutting down of marine engine
- Operates and maintains all electrical, hydraulic and pneumatic equipment on board
- Uses hand and power tools to perform routine repairs of equipment
- Orders materials and supplies as necessary
- Starts and stops tugboats under varying nautical and climatic conditions
- **NOTE**: The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.

MINIMUM QUALIFICATIONS

Education, Training, and Experience

• One year of work experience as a marine engineer operating a diesel engine aboard a motor vessel on the Great Lakes or the high seas

Licensure, Certification, or Other Qualifications

• Current Merchant Mariner's Document (MMD) issued by the United States Coast Guard

WORKING CONDITIONS

- Exposure to outdoor weather conditions (e.g., lake exposure)
- Exposure to loud noise, fumes or dust, oily or wet environment

EQUIPMENT

- Communication equipment (e.g., two-way radio, dispatch communications equipment, multichannel system)
- Personal protective equipment
- Standard tools and equipment used to maintain and prepare propulsion engines and other machinery on a tugboat

PHYSICAL REQUIREMENTS

• Heavy lifting (up to 75 pounds) is required

- Ability to walk and stand for extended or continuous periods of time
- Ability to move one's hands and arms to grasp or manipulate objects

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS

<u>Knowledge</u>

Considerable knowledge of:

- *the operation and maintenance of marine engines and auxiliary equipment
- *applicable emergency operations and procedures
- *tugboat mechanical and electronic systems and equipment

Some knowledge of:

- *applicable communications equipment and devices
- *use of safety equipment and protective gear
- *applicable safety procedures and code standards specific to tugboat operations, including Coast Guard and OSHA standards

Knowledge of applicable City and department policies, procedures, rules, regulations, and ordinances

<u>Skills</u>

- *ACTIVE LISTENING Give full attention to what other people are saying, take time to understand the points being made, ask questions as appropriate, and not interrupt at inappropriate times
- *COORDINATION WITH OTHERS Adjust actions in relation to others' actions
- *EQUIPMENT MAINTENANCE Perform routine maintenance on equipment and determine when and what kind of maintenance is needed
- *OPERATION MONITORING Watch gauges, dials, or other indicators to make sure a machine is working properly

<u>Abilities</u>

- COMPREHEND ORAL INFORMATION Listen to and understand information and ideas presented through spoken words and sentences
- SPEAK Communicate information and ideas in speaking so others will understand
- COMPREHEND WRITTEN INFORMATION Read and understand information and ideas presented in writing
- CONCENTRATE Concentrate on a task over a period of time without being distracted
- RECOGNIZE PROBLEMS Tell when something is wrong or is likely to go wrong
- RECOGNIZE SPATIAL ORIENTATION Know one's location in relation to the environment or know where other objects are in relation to one's self

Other Work Requirements

- PERSISTENCE Persist in the face of obstacles on the job
- INITIATIVE Demonstrate willingness to take on job challenges

- COOPERATION Be pleasant with others on the job and display a good-natured, cooperative attitude
- DEPENDABILITY Demonstrate reliability, responsibility, and dependability and fulfill obligations
- ATTENTION TO DETAIL Pay careful attention to detail and thoroughness in completing work tasks

All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

* May be required at entry.

City of Chicago Department of Human Resources Date: November, 2012