

### Class Concept

Positions in this class perform the full range of journey work duties associated with the construction, maintenance, and repair of air-conditioning systems and associated air handling, chilled water distribution, and control mechanisms. In addition, positions maintain refrigeration units and their control systems. Work assignments are generally in the form of work orders indicating the nature of the problem. Positions are expected to identify the cause of the problem, determine materials and tools, needed and method of repair, and carry out repair procedures independently on most jobs. The larger, costlier, exceptional, or more complex jobs may be reviewed by a technical supervisor to determine extent of malfunction, to assure that proper work methods are being followed and that work is of acceptable quality. Positions may train new mechanics or supervise the work of helpers.

### Recruitment Standards

#### Knowledge, Skills, and Abilities

- Working knowledge of refrigeration theory.
- Working knowledge of operating (BAU) building automation systems.
- Working knowledge of troubleshooting (DDC) Direct Digital Controls
- Basic knowledge of electricity sufficient to troubleshoot and repair complex electrical control systems.
- Working knowledge of the designing and operation of centrifugal and reciprocal compressors.
- Working knowledge of the design and operation of pneumatic control systems.
- Working knowledge of the practices, methods, materials, and equipment used in the operation, maintenance, and repair of air-conditioning and refrigeration systems.
- Ability to diagnose equipment malfunctions and to prescribe and perform repair procedures.
- Skill in the use of tools and equipment utilized in the repair of air-conditioning systems.

#### Minimum Education and Experience

High school or General Educational Development (GED) diploma and three years of progressive experience in the installation, maintenance or repair of air conditioning chillers, air handling, chilled water distribution and control systems; or an equivalent combination of education and experience.

#### Necessary Special Qualifications

Requires current certification by the Environmental Protection Agency as a Type I, II, III or Universal technician as required by Title 40, Code of Federal Regulations part 82, subpart F.