

CITY OF DETROIT  
**BUILDINGS AND SAFETY ENGINEERING DEPARTMENT**  
MECHANICAL/ELECTRICAL DIVISION, COLEMAN A. YOUNG MUNICIPAL CENTER  
2 WOODWARD AVE., FOURTH FLOOR-EXAMINATION SECTION-ROOM 404  
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May 2013

**MEMORANDUM**

**Subject:** Procedure and subject matter that an applicant shall be familiar with, when applying for a Third Class Refrigeration Operator License

**Prerequisites:** The City of Detroit Ordinance No. 706-G requires that an applicant for a Third Class Refrigeration Operator shall have at least three (3) months experience in the operation of non-domestic refrigeration equipment or shall have satisfactorily completed an acceptable course in the operation, servicing, installation, repair or maintenance of non-domestic refrigeration systems as established by completion letters or certificates.

**Application and Documentation:** Application forms will be obtained from this department. Completed applications and letters of documentation or other documentary evidence shall be submitted by the applicant to the examination office for evaluation and scheduling of examination dates. Notarized letters from company officials on company stationary per the attached samples are acceptable. Photo copies will be accepted for scheduling purposes only. Originals must be presented, for verification on the date of the appointment. Failure to do so will void the application and cancel the examination. Documentary material will be retained with the application and will not be returned. Application not accepted will be returned through the mail.

**Examination:** The oral examination for this license is given by appointment only on every second and fourth Tuesday and Thursday of each month. Application(s) will be interviewed at 8:00 a.m., the examination will begin at 8:30 a.m., and punctuality is a very important part of the exam. Fee \$95.00. Applicants who pass the written examination will be scheduled for an oral exam. Fee \$45.00. Failure to appear for an appointment will result in voiding the application. A new application and documentation will be required to make a new appointment.

The applicant is reminded that if he/she fails the examination, he/she is not eligible to reapply for the same grade of license for at least ninety (90) days.

The Third Class Refrigeration Operator License will authorize you to operate refrigerating systems containing the refrigeration shown on the application and containing not more than five hundred (500) pounds of refrigeration of refrigerant and driven by motors or engines of not more than one hundred twenty-five (125) horsepower.

**Subject Matter:** The examination will include questions, and drawings on the following: Basic principles; relief valves; rupture discs; fusible plugs; high and low pressure controls; safety heads; procedure in event of fire or leaks; leak testing; post of duty regulations; gas masks; basic cycle including functions and types of compressors, condensers, receiver, expansion valves and evaporators; starting and stopping a system; causes of high and low pressures; correct operating pressures and purging.

CONSTRUCTION DIVISION



Glenn A. Davis, Chief