



**DENVER**  
THE MILE HIGH CITY

**Civil Service Commission  
Police and Fire Classified Service**

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**MEMORANDUM**

TO: All Candidates for the Engineer Examination  
Denver Fire Department

FROM: Earl E. Peterson - *EEP*  
Executive Director

SUBJ: Reading List - 2016 Examination for Engineer, Denver Fire Department

DATE: January 4, 2016

The written examination component of the 2016 Examination for Engineer is a closed-book test which requires candidates to respond to items without the use of reference materials except for the Denver Fire Department Pump Chart and the Engineer's Quick Reference. This test is based on the material contained in the official reading list, which is attached to this memorandum.

The Textbooks on the *Official Reading List* are available for on-line purchase and/or rental, beginning **January 4, 2016**. Visit the amazon.com website at <http://www.amazon.com> to purchase the textbooks Aerial Apparatus Driver/Operator Handbook (Second Edition) and Pumping Apparatus Driver/Operator Handbook (Third Edition). In addition, you may wish to visit the following websites: <http://www.chegg.com/textbooks>, <http://fireservicebooks.com>, or <http://textbooks.com> to rent or purchase the two textbooks.

The **Department Study Material** on the *Official Reading List* was drawn from several sources and provided by the Department. The Department Study Material was provided by the Department on December 18, 2015. To download, please go to [denvergov.org/civilservice](http://denvergov.org/civilservice) and select the "Promotional Registration" link on the right side. There will be a link located under the 2016 Fire Engineer Examination Schedule to the Department Reading Material. If you wish, you may contact the Civil Service Commission at (720) 913-3371 to send you a disc containing an Acrobat (PDF) file of the study packet or you may pick up a disc in person during regularly scheduled office hours.



**Commissioners**  
Federico C. Alvarez – Neil Berlin – Anna Flores – Joseph G. Sandoval – Larry D. Trujillo  
**Executive Director**  
Earl E. Peterson

The Written Test will be developed using only the Textbooks and the Department Study Material listed on the Official Reading List. Other editions, printings, or revisions will not be used to develop items for the Written Test.

A copy of the Job Description for the rank of Engineer is available for download at the time of online Registration at the Commission's web site ([www.denvergov.org/civilservice](http://www.denvergov.org/civilservice)). Select the "Promotional Fire" link on the right side. There will be a link located under the 2016 Fire Engineer Examination Schedule to the Job Description.

If you have any questions regarding this memorandum, the Official Reading List, or the Announcement of Examination, or should you have any problems obtaining the Textbooks or Department Study Material packet, please immediately contact Senior H. R. Professional Jeff Wilson at 720-913-3380, or by email at [jeff.wilson@denvergov.org](mailto:jeff.wilson@denvergov.org).

Attachments: Official Reading List, 2016 Denver Fire Engineer Examination  
General Comments Regarding the Exam and Materials  
Civil Service Commission Policy on Light Duty Restrictions

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General Comments Regarding the Exam and Materials

1. There will be no questions on the exam which address the use of the metric measurement system.
2. Copies of the Engineer's Quick Reference and Pump Chart will be provided to you at the time of the test for use during the examination.



WELLINGTON E. WEBB  
Mayor

# CITY AND COUNTY OF DENVER

## CIVIL SERVICE COMMISSION

POLICE AND FIRE DEPARTMENTS

888 EAST ILIFF AVENUE  
DENVER, COLORADO 80210

PHONE: (303) 698-4990

## COMMISSIONERS

Ed Burke  
Rudy Livingston  
Ellen Reath  
Paula Sandoval  
Edward Sullivan

## EXECUTIVE DIRECTOR

Paul G. Torres

### CIVIL SERVICE COMMISSION POLICY ON THE FIRE ENGINEER PRACTICAL EXAMINATION AND LIGHT DUTY RESTRICTIONS

Effective: March 8, 1996

#### **Purpose:**

This policy will assist the Denver Fire Department in maintaining safe working conditions for all employees involved in the promotional examination process.

#### **Policy:**

A candidate who is eligible to participate in the practical examination phase of the Engineer promotional examination for the Denver Fire Department must notify the Civil Service Commission, in writing, of any light duty restriction or medical condition that may prevent the candidate from performing the driving, aerial, or any other essential physical task in the examination. Notice to the Commission of the restriction or medical condition shall be made, in writing, at the time the candidate draws a date to participate in the practical examination or within 24 hours of the occurrence of an injury.

At the time a candidate with a restriction registers for participation in the practical examination, the Commission will require the candidate to submit a medical statement from an Occupational Health and Safety Clinic (OHSC) physician permitting participation in the examination. The candidate shall not be permitted to participate in the examination if the OHSC physician denies approval.

If a candidate participates in the examination without proper notice to the Civil Service Commission of a restriction or medical condition that may prevent the candidate from performing any task in the examination, the candidate assumes all risks incurred from participation in the examination. In no event shall the Civil Service Commission be liable for any new injury or aggravation of a pre-existing condition that a candidate may suffer as a result of participation in the examination.

**Approved by Civil Service Commission  
on March 8, 1996**

**Edward Sullivan, President  
Paula Sandoval, Vice President  
Ed Burke, Commissioner  
Ellen Reath, Commissioner**

A handwritten signature in black ink that reads "Paul G. Torres". The signature is written in a cursive style with a large, sweeping initial "P".

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**Paul G. Torres, Executive Director**

## **READING LIST (2016 DENVER FIRE ENGINEER)**

The official examination reading list is as follows:

### **BOOKS**

IFSTA Aerial Apparatus Driver/Operator Handbook ISBN 978-0-87939-359-5  
Second Edition (First Printing), 2009  
(Exclude Pages 132 through 138 Dealing with Apparatus Testing, Pages 172 through 175 Dealing with Tiller Operations, Chapter 9, Appendix A, and Appendix B)

IFSTA Pumping Apparatus Driver/Operator Handbook ISBN 0-87939-574-2  
Third Edition (First Printing), 2015  
(Exclude Pages 6 through 8 Dealing with Metric Conversions, Page 21 Dealing with Fireboats, Pages 247 through 272 Dealing with Theoretical Pressure Calculations (Metric), Chapter 11, Chapter 13, Chapter 15, Appendix A, Appendix B, Appendix D (table D.1, D.3, D.5, D.8, D.9, D.10), Appendix E, and Appendix F.)

### **DENVER FIRE DEPARTMENT READING MATERIAL (6 PARTS)**

#### **A. DENVER FIRE DEPARTMENT DIRECTIVES**

1. Accidents and Driver Review – 1010.00
2. Driver Safety Program – 1010.01
3. Accidents Involving DFD Vehicles or Apparatus – 1010.02
4. Accidents NOT Involving DFD Vehicles – 1010.03
5. Accidents Involving DFD Vehicles on DFD Property – 1010.04
6. Drivers License and Violation Reporting Policy – 1010.05
7. Emergency (Code 10) Responses – 1010.06
8. Use of Seat Belts in Department Vehicles – 1010.07
9. Mission Statement – 1019.00
10. Code of Conduct – 1020.00
11. Sexual Harassment Policy – 1021.00
12. Executive Order 94 – City and County of Denver Employees’ Alcohol and Drug Policy – 1022.00
13. Use of Department Psychologists By Fire Department Personnel For Problems Of Drug And/Or Alcohol Abuse – 1023.00

#### **B. DENVER FIRE DEPARTMENT STANDARD OPERATING GUIDELINES**

1. Rank Structure – 2101.01
2. Operating Apparatus in Reverse – 2105.01
3. Hose Inventory, Maintenance, and Testing – 2106.01
4. Rapid Intervention Team – 2110.01
5. Natural Gas – 2111.07
6. Engine Company Operations – 2112.01 through 2112.10
7. AFFF/ATC Foam – 2112.11

8. Truck Company Operations – 2113.01 through 2113.05, and 2113.07
9. High Rise – 2114.00, 2114.02 through 2114.08, and 2114.20 through 2114.30
10. Special Operations Collapse Rescue – 2115.02
11. Special Operations Confined Space Rescue - 2115.03
12. Hazardous Materials – 2116.01 and 2116.02

C. **2015 COLORADO COMMERCIAL DRIVER LICENSE (CDL) MANUAL**

1. Section 2 (Driving Safely)
2. Section 5 (Air Brakes)
3. Section 8 (Tank Vehicles)

D. **DENVER FIRE DEPARTMENT ENGINEER'S QUICK REFERENCE CHART**

E. **DENVER FIRE DEPARTMENT FRICTION LOSS PUMP CHART**

F. **DENVER FIRE DEPARTMENT RIG MAINTENANCE PROTOCOL**