NOTICE OF FINAL ACTION TAKEN BY THE
HUMAN RESOURCES DIRECTOR

Date: March 3, 2014
Re: Notice of Proposed Classification Actions – Final Notice No 16 FY 13/14 (copy attached).

Pursuant to completion of discussion with Local 6 & Local 21 regarding this classification action, the classification action contained in the above referenced notice became effective March 3, 2014.

Micki Callahan
Human Resources Director

by: Steve Ponder
Classification and Compensation Manager
Human Resources

cc: All Employee Organizations
All Departmental Personnel Officers
DHR – Class and Comp Unit
DHR – Client Services Unit
DHR – Employee Relations Unit
DHR – Recruitment and Assessment Unit
DHR – Client Services Support Services
Micki Callahan, DHR
Jennifer Johnston, CSC
Sandra Eng, CSC
Linda Cosico, DHR
Maria Newport, SFERS
Risa Sandler, Controller/Budget Division
Devin Macaulay, Controller/ Budget Division
Theresa Kao, Controller/ Budget Division
Chris Trenschel, Controller/ Budget Division
E-File
NOTICE OF PROPOSED CLASSIFICATION ACTIONS BY
THE HUMAN RESOURCES DIRECTOR

The following actions are being posted in accordance with Civil Service Rule 109. In the absence of a protest addressed to the Human Resources Director, the proposed changes will become final seven (7) calendar days from the posting date.

Posting No: 16
Fiscal Year: 2013/2014
Posted Date: 1/10/14
Reposted Date: N/A

AMEND THE FOLLOWING JOB SPECIFICATION(S):
(Job specification(s) attached.)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Job Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7318</td>
<td>Electronic Maintenance Technician</td>
</tr>
<tr>
<td>2</td>
<td>7329</td>
<td>Electronic Maintenance Technician Assistant Supervisor</td>
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</tbody>
</table>

For additional information regarding this proposed classification action, please contact Cathy Abela, Senior Classification and Compensation Analyst, at (415) 557-4926 or by email at Cathy.Aabela@sfgov.org.

Protests on an item should be addressed to the Human Resources Director and can be submitted by mail to the City and County of San Francisco, Department of Human Resources, 1 South Van Ness Ave, 4th Floor, San Francisco, CA 94103 or by email to DHR.ClassificationActionPostings@sfgov.org. All protests must be received in writing no later than close of business seven (7) calendar days from the posting date, and must include the posting and item number(s), the basis on which the protest is submitted and identify the affected parties.


cc: All Employee Organizations
    All Departmental Personnel Officers
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    DHR – Client Services Unit
    DHR – Employee Relations Unit
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    Theresa Kao, Controller/Budget Division
    Chris Trenschel, Controller/Budget Division
    E-File
INTRODUCTION

Under general supervision, the Electronic Maintenance Technician performs a wide variety of highly skilled technical work including, but not limited to, the trouble-shooting, maintenance, testing, repair, calibration, fabrication, installation and modification of transit electronic equipment and a wide variety of other types of electronic equipment and related control system components; and performs other duties as required.

DISTINGUISHING FEATURES

This journey-level job class is characterized by its responsibility for maintenance and repair work on various types of electronic equipment. Assignments may involve responsibility for the circuits, components, and related equipment used in connection with the operation of electronically controlled light rail and trolley vehicles. Other assignments may involve responsibility for maintaining electronic communication systems, telemetering, remote control equipment and power house equipment. It is distinguished from 7336 Electronic Instrumentation Technician, Water Pollution Control, in that the latter is responsible for the maintenance and repair of electronic systems, instruments and equipment at the City's sewage treatment plant and pumping stations. This class is distinguished from the 7329 Electronic Maintenance Technician Assistant Supervisor, which is the advanced journey level in this series, and the latter is assigned to perform the more difficult and complex work and will supervise staff.

SUPERVISION EXERCISED

MAJOR, IMPORTANT, AND ESSENTIAL DUTIES

According to Civil Service Commission Rule 109, the duties specified below are representative of the range of duties assigned to this job code/class and are not intended to be an inclusive list.

1. Performs corrective and preventive maintenance, non-routine repair, modification, and troubleshooting, calibration, removal and installation of complex electronic systems, equipment and transit vehicles.

2. Tests and calibrates electronic equipment using established test procedures; operates Diagnostic Test Equipment, function generators, oscilloscopes, transmission measuring test sets, meters, and other devices required to maintain electronic systems and equipment; utilizes various schematics, blueprints, wire lists, equipment manuals, and other resources.

3. Inspects newly installed equipment including circuits and systems to evaluate performance under operating conditions; may assist in the design fabrication, testing, and evaluation of prototypes.

4. Maintains records of work performed; develops documentation for the maintenance installation, removal and modification of electronic systems and equipment.

5. Instructs other personnel in system maintenance procedures and operations; may advise
and assist management personnel and others on operating problems involving electronic
transit equipment.

6. Operates special hand and power tools, such as soldering equipment, drill press grinder,
crimper, saws, wire-wrap tools, and other related equipment.

7. Inspects, maintains and repairs network communication systems, supervisory control,
remote signal and remote control equipment, instrumentation and control systems, and flow,
pressure and level sensor calibrations.

8. Inspects, maintains and repairs radio, fire alarm and security systems, video equipment,
digital electronic equipment, telemetering, communication, protective relays, meters and
other electronic and auxiliary apparatus.

9. Inspects, maintains and repair various miscellaneous electrical equipment in
powerhouse, switch yard and sub-station; may act as an emergency operator at an
unattended powerhouse station.

10. Operates a motor vehicle to respond to service requests at various locations

IMPORTANT AND ESSENTIAL KNOWLEDGES, SKILLS, AND ABILITIES

Knowledge of:
electronics and electrical principles and theory, including digital and analog
circuits

Ability to:
evaluate electronic systems, circuits and components; troubleshoot signal, data
and radio communications, power and signal equipment; work from schematics, drawings
and blueprints; operate a motor vehicle and maintain insurability standards; use a computer
and software applications.

Skill to:
Instruct and advise other personnel on maintenance procedures; compose work
records, documentation for maintenance; apply safety procedures in the course of work

MINIMUM QUALIFICATIONS

These minimum qualifications establish the education, training, experience, special skills and/or license(s) which
are required for employment in the classification. Please note, additional qualifications (i.e., special conditions)
may apply to a particular position and will be stated on the exam/job announcement.

1. Completion of a two (2) year or equivalent program in electronics from a recognized
academic, trade or technical institution; or completion of a military training program in
electronics

AND

2. Three (3) years of verifiable journey-level industrial or institutional electronic experience
performing installation, instrumentation calibration, maintenance, troubleshooting, repair and
modification of electronic systems and related electrical components and electronic sub-
systems to the electronic component level; AND
Title: ELECTRONIC MAINTENANCE TECHNICIAN
Job Code: 7318

3. Possession of a valid California driver's license

LICENSE AND CERTIFICATION

PROMOTIVE LINES

TO: 7329 Electronic Maintenance Technician Assistant Supervisor
FROM: 7430 Assistant Electronic Maintenance Technician

ORIGINATION DATE: May 17, 1977
AMENDED DATE: April 28, 2000, March 3, 2014
REASON FOR AMENDMENT: To accurately reflect the current tasks, knowledge, skills and abilities defined in the most recent job analysis conducted for this job code.

BUSINESS UNIT(S): COMMN SFMTA
INTRODUCTION

Under general supervision, the Electronic Maintenance Technician Assistant Supervisor performs a wide variety of highly skilled electronic system trouble shooting, maintenance, testing, and repairs; exercises work direction over a small group of subordinate skilled and semi-skilled staff engaged in such work; and performs related duties as required.

DISTINGUISHING FEATURES

This class is the lead worker or working supervisor in the Electronic Maintenance Technician series. It is distinguished from the higher level Supervising Electronic Maintenance Technician by the smaller size of crew and more limited scope of activities supervised. It is distinguished from the lower level 7318 Electronic Maintenance Technician by the complexity of work assigned and responsibility for exercising work direction over other technical personnel.

SUPERVISION EXERCISED

MAJOR, IMPORTANT, AND ESSENTIAL DUTIES

According to Civil Service Commission Rule 109, the duties specified below are representative of the range of duties assigned to this job code/class and are not intended to be an inclusive list.

1. Supervises by planning, assigning and reviewing the work of a small group of skilled, semi-skilled and support staff performing trouble-shooting, maintenance, repair, calibration, fabrication, installation, design, modification and development of a wide variety of electronic systems.

2. Performs quality assurance tests; assists in developing and modifying maintenance and repair policies and procedures.

3. Performs a variety of complex, non-routine electronic maintenance tasks including corrective and preventive maintenance, repair, trouble shooting, calibration, removal, installation, and system design and modification.

4. Advises staff in solving difficult problems, assists in training and interpreting policy; enforces safety procedures; analyzes equipment failures, personnel or operational problems and reports to supervisor.

5. Maintains records of maintenance activities including vehicle work orders, time and materials usage, equipment test results, vehicle modifications, and others as directed.

6. Analyzes chronic equipment failure, design system improvements, estimate project time and costs, or prepare specialized reports of program activities.

7. Tests and calibrates electronic equipment using established test procedures; operates Diagnostic Test Equipment, function generators, oscilloscopes, transmission measuring test sets, meters, locators, and other devices required to maintain electric/electronic systems and equipment; utilizes various schematics, blueprints, wire lists, equipment manuals, and other...
Title: 7329
Job Code: ELECTRONIC MAINTENANCE TECHNICIAN ASSISTANT SUPERVISOR

resources.

8. Performs corrective and preventive maintenance, non-routine repair, modification, troubleshooting, calibration, removal and installation of complex electronic systems, equipment and transit vehicles

9. Inspects existing and newly installed equipment including motor/generator control circuits and systems to evaluate performance under operating conditions; may assist in the design fabrication, testing, and evaluation of prototypes.

10. Instructs other personnel in system maintenance procedures and operations; may advise and assist management personnel and others on operating problems involving electronic transit equipment.

11. Operate special hand and power tools, such as soldering equipment, drill press grinder, crimper, saws, wire-rap tools, and other related equipment.

12. Inspects, maintains and repairs network communication systems, supervisory control, remote signal and remote control equipment, instrumentation and control systems, and flow, pressure and level sensor calibrations.

13. Inspects, maintains and repairs radio, fire alarm and security systems, video equipment, digital electronic equipment, telemetering, communication, protective relays, meters and other electronic and auxiliary apparatus.

14. Inspects, maintains and repairs various miscellaneous electrical equipment in powerhouse, switch yard and sub-station; may act as an emergency operator at an unattended powerhouse station.

15. Maintains detailed files and record-keeping system to assure accurate and complete documentation of payroll/personnel

16. Operates a motor vehicle to respond to service requests at various locations

IMPORTANT AND ESSENTIAL KNOWLEDGES, SKILLS, AND ABILITIES

Knowledge of: electronics and electrical principles and theory, including digital and analog circuits; functional use of complex electronic test equipment; relay logic and electronic power, data processing and communications equipment; principles and methods of electronics systems maintenance and repair; and safety procedures.

Ability to: Trouble-shoot signal, data and radio communications, power and signal equipment; work from drawings and blueprints; plan, assign, and supervise subordinate staff; Operate a motor vehicle and maintain insurability standards; use a computer and software applications

Skill to: Instruct and advise other personnel on maintenance procedures; compose work records, documentation for maintenance; apply safety procedures in the course of work
Title: 7329
Job Code: ELECTRONIC MAINTENANCE TECHNICIAN ASSISTANT SUPERVISOR

MINIMUM QUALIFICATIONS

These minimum qualifications establish the education, training, experience, special skills and/or license(s) which are required for employment in the classification. Please note, additional qualifications (i.e., special conditions) may apply to a particular position and will be stated on the exam/job announcement.

1. Completion of a two (2) year course or equivalent program in electronics from a recognized academic, trade, or technical institution; or completion of a military training program in electronics; AND

2. Five (5) years of industrial or institutional electronics experience performing installation, instrumentation calibration, maintenance, trouble-shooting, repair and modification of electronic control systems and related electrical components and electronic sub-systems to the electronic component level; AND

3. Possession of a valid California driver's license

LICENSE AND CERTIFICATION

PROMOTIVE LINES

TO: 7287 Supervising Electronic Maintenance Technician
FROM: 7318 Electronic Maintenance Technician

ORIGINATION DATE: October 2, 1979
AMENDED DATE: March 3, 2014
REASON FOR AMENDMENT To accurately reflect the current tasks, knowledge, skills and abilities defined in the most recent job analysis conducted for this job code.

BUSINESS UNIT(S): COMMN SFMTA