

Ordinance No. 161

An Ordinance regulating the business of doing electrical installation, fixture and connection work and providing for the examination of persons engaged in the same, creating a Board of Examination, regulating the sale of electrical fixtures and providing additional regulations for electrical installation, appliances, providing for the licensing of electrical workers, fixing a penalty for the violation thereof, and repealing Ordinance No. 156 of the City of Las Vegas, entitled "An Ordinance regulating the business of doing electrical installation, fixture and connection work and providing for the examination of persons engaged in the same, and creating an examination board, and providing a penalty for a violation thereof," and repealing Ordinance No. 128 of the City of Las Vegas, entitled "An Ordinance providing for the licensing of electrical workers in the City of Las Vegas, and fixing a penalty for the violation thereof," and repealing all Ordinances and parts of Ordinances in conflict with the provisions of this Ordinance.

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the Board of Examination not more than thirty days after the filing of the application, of which the applicant shall receive at least three days' notice. Such fee shall be paid to the City Clerk.

Section 4. The word "person" as used herein shall include also any firm or persons or corporation. A "master electrician" within the meaning of this Ordinance is a person, firm or corporation actively engaged in the business of installing, altering and/or repairing electrical wiring of electrical lighting or heating apparatus for others, directly or by ~~xxxx~~ means of agents or employees. A "journeyman electrician" within the meaning of this Ordinance is a person employed by a master electrician to supervise under the control and direction of a master electrician the installing, altering and/or repairing of electrical lighting or heating apparatus or to do installing, altering and/or repairing of electrical wiring of electrical lighting or heating apparatus.

It shall be unlawful for any journeyman electrician to do electrical work in the City of Las Vegas without first procuring a certificate therefor as herein provided. Every application for a certificate as journeyman electrician within the City of Las Vegas shall be made to the Electrical Inspector, and shall be issued by the Electrical Inspector only when the applicant therefor shall by written examination have established to the satisfaction of the ~~xxx~~ Board of Examination aforesaid that such applicant possesses the qualifications necessary to do the work of journeyman electrician within the said City and properly instal electrical wiring and electrical lighting and heating apparatus in accordance with the provisions of the then existing ordinances of the City of Las Vegas relating to such work, or properly supervise the installation of electrical wiring and electrical lighting and heating apparatus. The fee for the examination for journeyman electrician shall be Five Dollars (\$5.00) and shall be paid to the Electrical Inspector upon application for certificate.

Every ^{of the age of twenty-one years or over} person engaged in work as master electrician or journeyman electrician in the City of Las Vegas ~~xx of the age xx~~ at the time of the taking effect of this Ordinance, shall apply for and receive a certificate of competency from said Board of Examination before continuing such work, but shall not be required to submit to examination in order to receive the same. The provisions for taking out license and for annual renewal of license of master electrician shall apply to the master electricians mentioned in this paragraph. In case of revocation of a certificate of competency, as herein provided for, such person shall submit to and pass an examination for competency before such Board of Examination before being reinstated and having a new certificate issued to him. The revocation of certificate of competency of a journeyman electrician may be had in the same manner and with the same effect as hereinabove provided for the revocation of certificate of competency of master electrician.

~~Section 5. No license shall be granted to any person~~
~~xxxxxx~~

Section 5. Any person failing to pass any such examination as herein provided for shall be entitled to have returned to him the fee paid to the City Clerk as hereinabove provided.

Section 6. No license shall be granted to a master electrician until a fee of \$25.00 therefor shall have been paid to the City Clerk of said City, which shall constitute the fee for the current calendar year, or portion thereof, in which such license shall be issued. Any license issued to any master electrician shall expire at the end of the calendar year; provided, that upon payment of an annual license fee of \$25.00, such license shall be renewed yearly until revoked.

Section 7. No master electrician shall allow or permit anyone except himself, or his agents or employees, to instal

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DO
ORDAIN AS FOLLOWS:

Section 1. ~~On~~ ^{and} ~~after~~ ^{the passage, adoption completed publication} ~~days from the~~
~~passage~~ of this Ordinance, it shall be unlawful for any
master electrician to do, or attempt to do, or cause to be done,
except as hereinafter provided, any electrical installation,
fixture or connection work, whether original work or alteration,
within ~~any building~~ in the City of Las Vegas, without first
undergoing before a Board of examination as to his competency
as an electrician or electrical worker and procuring from such

Board certificate thereof. Said Board of Examination shall
consist of three members, one of whom shall be the Chief of the
Fire Department, one shall be the Electrical Inspector and the
remaining member shall be a licensed Master electrician, said
latter member to be appointed by the other two members of the
Board of Examination, but the person so appointed may at any time
be removed by the Resolution or Order of the Board of City
Commissioners of said City. Such Board shall organize, adopt
rules and regulations for its guidance, and elect one of its
members to be President and another its Secretary. An affirmative
vote of a majority of such Board at a regular or special meeting
thereof shall be sufficient to authorize the issuance of such
certificate to any applicant therefor upon such examination,
such certificate to be signed by the President and Secretary of
such Board. In the event of the failure of said Chief of
the Fire Department and Electrical Inspector to at any time
appoint such remaining member of said Board such appointment may
be made by the said Board of City Commissioners, and the
person so appointed may be removed by said Board of City Com-
missioners, as above provided. The records of said Board of
Examination shall at all times be open to the inspection of the
Mayor and any Commissioners of the City of Las Vegas, and such
Board of Examination shall make such reports to said Board of
City Commissioners from time to time as required by said

Board of City Commissioners. *In the event the Chief of the Fire Department
fail or refuse to act on said Board his office shall be filled by the Board
of City Commissioners on said Board of Examination.*

Section 2. Said Board of Examiners shall have the power
and it shall be its duty to cancel and annul the certificate
provided for in Section 1 of this Ordinance, of any person
holding the same, should it ascertain that such person or
persons have done, or habitually do any work or cause or permit
or allow to be done any work not in strict accordance with
approved electrical methods as defined by any Ordinance of the
City of Las Vegas, or which said Board may regard as dangerous
to life or property, and it shall be unlawful for any person,
whose certificate has been so cancelled or annulled, to again
engage in such work until he has been reinstated by the Board
of Examination and a new certificate issued to him.

Section 3. Before filing with said Board of Examination
his application for an examination, as provided in Section 1,
the applicant for an examination shall pay a fee of TEN
Dollars, and such examination shall be held by

alter and/or repair any electrical wiring or electrical lighting or heating apparatus or equipment under any permit therefor obtained by him. Any violation of this paragraph of this Ordinance shall be deemed sufficient grounds for revocation of his license as such.

Section 8. No person, firm or corporation shall engage in the business of selling electrical supplies and/or of contracting electrical installations, alterations and/or repairs, for any purpose whatsoever without first having procured a license therefor and deposited with the City ~~Electrician~~ Clerk a surety bond in the sum of One Thousand Dollars (\$1000.00). The bond shall be conditioned upon the faithful performance of all work entered upon or contracted for in strict accordance and compliance with the terms and requirements of all Ordinances of the City of Las Vegas regulating electrical installations, alterations and/or repairs, and all amendments thereto.

The bond shall ~~also~~ be conditioned also that the one so bonded shall without additional charge remedy any defect due to faulty workmanship, incorrect construction and/or defective or unapproved material, devices, appliances, etc., installed, furnished or used by the one so bonded or his agent or employee therefor, and that the one so bonded shall remedy all defects replacing all unapproved material, devices, appliances, etc., with approved ones, to the satisfaction of the City ~~Electrician~~ ^{Inspector} after due notice, within fifteen days or other reasonable time as specified by the City ~~Electrician~~ ^{Inspector}, and the written opinion of the City ~~Electrician~~ ^{Inspector} shall be binding upon all parties thereto.

The bond shall be a continuing obligation against the depositor and sureties thereon until the entire amount thereof shall have been exhausted. In case the bond shall be decreased on account of any recovery which may be obtained, arising out of the violation of any conditions of the same, the City ~~Electrician~~ ^{Inspector} shall require an additional bond be given in accordance with this Ordinance in amount sufficient when added to the ~~unexpired~~ amount of the original bond shall total the amount of the original bond.

The City of Las Vegas may for itself ~~or for the use and benefit of any person~~ injured or damaged by reason of failure to comply with the provisions of this Ordinance, maintain suit on the bond in any court having jurisdiction, or suit may be obtained thereon by any person, firm or corporation injured or damaged by reason of failure of the one bonded to comply with the provisions hereof.

Section 9. Application for a license shall be made to the City Clerk. The fee for said license shall be Twenty-five Dollars (\$25.00) and shall be payable annually in advance to the City Clerk of the City of Las Vegas.

Upon receipt of the bond, application and fee the City Clerk shall issue a license which shall expire on the first day of the following year which shall permit the holder thereof to sell electrical supplies and when proper notation has been made thereon by the City ~~Electrician~~ ^{Inspector} following the successful compliance by the applicant of the provisions of this Ordinance, shall permit the holder thereof to also engage in the business of contracting electrical installation, alterations and/or repairs.

Section 10. Any Electrical Contractor licensed under the provisions of this Ordinance who shall allow or permit other than himself or his accredited representative to obtain a permit to perform electrical work under said license, shall be guilty of a misdemeanor and upon conviction thereof, shall be punished as herein provided.

Section 11. It shall be unlawful for any person, firm or corporation to use or permit or cause to be used, any electrical apparatus or fixtures when said apparatus or fixtures or the installation of same does not conform to ~~the~~ all the requirements of this Ordinance.

Section 12. When there are obtainable for any given purpose, materials, fittings, devices or appliances that have been examined by a properly qualified and authorized body and approved, listed and/or labeled as conforming to the standards of the United States Bureau of Standards, or other similar institution of recognized standing, then only such shall be sold and/or used. Such approval is always for a particular ~~xxxxxxx~~ use and such approval and label does not mean that the materials et cetera may be used indiscriminately but only for the purpose for which approved. For good cause or when public interest may require, or pending approval ~~of~~ the City Electrician, ^{Inspector} may waive, by writing in advance, the requirements of this section, but such waiver shall apply only to the one particular installation and shall not set a precedent as to further use.

Section 13. The Electrical Inspector shall issue permits, make inspections and shall keep complete records of all permits and inspections, and shall perform such other official duties as may be required under the provisions of this or any other Ordinance of the City of Las Vegas relating to electrical installations, alterations and/or repairs. The Electrical Inspector shall pay all monies collected from fees for permits, etc. to the City Clerk daily, together with a duplicate of each permit issued for that day.

Section 14. The City Electrician ^{Inspector} periodically shall make a thorough reinspection of the installation in or on buildings and/or premises of all electric wiring, electric devices and electric material now installed or that may hereafter be installed, within the City of Las Vegas, and when the installation of any such wiring, devices and/or material is found to be in a dangerous or unsafe condition, the person, firm, corporation or political subdivisions owning, using or operating the same shall be notified in writing, and shall make the necessary repairs or changes required to place such wiring, devices and material in a safe condition and have such work completed within fifteen days, or other reasonable period specified by the City Electrician ^{Inspector} in said notice and shall pay such fees as ^{are} required by any of the ordinances of the City of Las Vegas relating to electrical installations, alterations and/or repairs. The City Electrician ^{Inspector} is hereby empowered to disconnect or order the discontinuance of electrical service to such wiring, devices and/or material so found to be defectively installed until the installation of such wiring, devices and material has been made safe as directed by the City Electrician ^{Inspector}, and any person, firm or corpo-

ration or political subdivision ordered to discontinue such electrical service shall do so within 24 hours and shall not reconnect or allow it to be re-connected until notified to do so by the City Electrician ^{Inspector}. Provided, however, that no reinspection shall be made in any dwelling house, while same is occupied as a dwelling, without the consent of the occupant thereof. No person or persons shall hinder or prevent the City Electrician ^{Inspector} or his deputies from making any electrical inspection except in dwelling houses.

Section 15. The Electrical Inspector shall charge the sum of \$1.00 for each survey of a proposed electrical installation, alteration or repairing for which a permit has not first been issued, which amount shall be paid by the person, firm or corporation responsible for such survey, and such sum or sums so received shall be handled and disposed of by such Electrical Inspector as all other fees collected by him.

Section 16. Rigid conduit shall be used in concrete tile buildings on such portions of the installation where it is necessary to instal outlets, plugs and switches in the tile.

All conduit used in underground installations shall be galvanized or sheradized and all joints must be leaded or its equal and made water tight. The use of running thread in underground installation is prohibited.

Outlet boxes smaller than a four inch octogan box shall not be used on concealed conduit work.

3- $\frac{1}{4}$ inch outlet boxes may be used on open conduit work provided that receptacles or drop cords are used.

Table for number of wires to be used in outlet boxes:

	#4	#6	#8	#10	#12
1 $\frac{1}{2}$ x4 Octagonal or round	9	7	5	4	3
1 $\frac{1}{2}$ x4 Square	12	10	8	6	4
1 $\frac{1}{2}$ x 4 11-16 Square	16	13	10	8	6
21-8x4 11-16 Square	20	16	12	10	8

In stepping down wire sizes, splicing of small wire on to larger wire shall be prohibited. Wires shall be brought into a panel and properly fused. All subfeeds shall have a disconnecting switch and shall be fused according to size of wire.

All disconnect switches shall be permanently grounded.

Section 17. Ceiling outlets for Assembly Halls, Schools, Hospitals, Churches and Public Buildings shall be as follows:

Corridors-----	50 watts
Breakfast rooms-----	100 watts
Bed Rooms-----	100 watts
Bath Rooms-----	100 watts
Toilets-----	50 watts
Auditoriums-----	1 watt per square foot-200 watts per outlet
Rooms-----	1 watt per square foot-200 watts per outlet
Kitchens-----	1 watt per square foot-150 watts per outlet
Laundries-----	1 watt per square foot-200 watts per outlet

Ceiling outlets for residences, plats and apartments shall be; as follows:

Porches-----	50 watts
Reception halls-----	100 watts
Passage halls-----	50 watts
Living rooms-----	150 watts
Dining rooms-----	100 watts
Beam Lights-----	50 watts

Dens-----	100 watts
Music Rooms-----	100 watts
Libraries-----	150 watts
Bed Rooms-----	100 watts
Bath Rooms-----	150 watts
Toilets-----	50 watts
Breakfast rooms-----	100 watts
Closets-----	50 watts
Laundries-----	100 watts
Basement Lights-----	50 watts
Bracket Lights-----	50 watts

All light outlets on front and rear porches (sleeping porches excepted), bath rooms, toilets, laundries and kitchens shall be controlled from wall switches, and lights in any room having running water shall be controlled from wall switches.

There shall be installed at least one convenience outlet in the kitchen, breakfast room, service porch or laundry in every dwelling place.

Convenience outlets shall not be installed in ironing cabinets

Ceiling outlets for store and shop rooms shall be, as follows:

Sales rooms-----	1 watt per square foot	-200 watts per outlet
Basement and storage rooms-----	$\frac{1}{2}$ " " " "	-100 watts "
Commercial buildings-----	$\frac{1}{2}$ " " " "	-100 " " "
Window outlets-----	50 watts per lineal foot	-150 watts per outlet
Automobile Storage Rooms-----	$\frac{1}{2}$ Watts per square foot	-100 " " "
Wash Racks-----	$\frac{1}{2}$ " " " "	-100 " " "
Garages (Public)-----	1 " " " "	-200 " " "

Section 18. A master switch must be installed where there are more than two meter switches in one building.

Troughing must be provided where there are more than two meter switches and where larger than three No. 8 wires are used.

Flexible conduit shall be strapped within twelve inches of outlet and every three feet along the run.

Rigid conduit shall be strapped within three feet of outlet and every five feet along the run.

Wires shall not be pulled in conduit for a distance greater than seventy feet without the installation of a pull box. Pullboxes may be installed in an accessible attic and made dust proof.

Knotching of joists ^{is permissible in notches} $\frac{1}{5}$ the depth of the joist and ^{not more than} three times the depth of the joist from the bearing surface.

Porcelain sockets shall be used over all grounded floors where the sockets are less than 8 feet above the floor.

Section 19. All electric signs shall have the approval of the Electrical Inspector.

Electric signs shall be wired on separate circuits. Switches controlling sign or outline lighting shall be externally operable.

When signs are not within sight of the switch, the switch shall be of locking type.

Section 20. Weatherproof wire shall be used in the installation of yard wiring.

In yard wiring, where the current carrying conductors support the lights, wooden spreaders of not less than 12 inches in length shall be used. Spreaders shall be placed every 10 feet along the run, and shall have an approved insulator on each end and conductors shall be securely fastened to these insulators.

Conductors are to be dead ended on a suitable bracket or insulator at each end of the run.

A galvanized iron wire of not less than #12 gage shall be continuous from one end of run to the other, and shall be securely fastened to the center of each spreader. The galvanized iron wire shall be securely fastened at each end of run so as to act as a messenger and release the strain on the current carrying conductors.

All yard lights shall be equipped with weatherproof sockets.

Section 21. All ground connections shall run to a cold water pipe and fastened by an approved ground clamp. Where it is impracticable to connect to a water pipe a ground rod of not smaller than $\frac{1}{2}$ inch galvanized pipe (or its equal) shall be used.

Section 22. Open wires shall be separated from contact with walls, floors, timbers or partitions through which they pass by tubes or bushings composed of approved non-combustible non-absorptive insulating material.

Wires passing through cross timbers in plaster partitions shall be protected by an additional tube extending at least three inches above the timber where it is impracticable to use tubes or bushings loom may be substituted.

Section 23. Every person, firm or corporation violating any of the provisions of this Ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine of not less than ~~xxx~~ FIVE Dollars nor more than THREE HUNDRED Dollars or by imprisonment in the City Jail for a period not exceeding ~~twenty~~ ONE HUNDRED FIFTY days, or by both such fine and imprisonment.

Section 24. Ordinance No. 156 of the City of Las Vegas, entitled "An Ordinance regulating the business of doing electrical installation, fixture and connection work and providing for the examination of persons engaged in the same, and creating an examination board, and providing a penalty for a violation thereof," is hereby repealed.

Section 25. Ordinance No. 128 of the City of Las Vegas, entitled "An Ordinance providing for the licensing of electrical workers in the City of Las Vegas, and fixing a penalty for the violation thereof," is hereby repealed.

Section 26. All Ordinances and parts of ordinances in conflict with the provisions of this Ordinance are hereby repealed.

Section 27. This ordinance shall be in effect from and after its passage and adoption and publication for a period of one week (three issues) in Las Vegas Age a tri-weekly newspaper published in the City of Las Vegas.

Section 28. Every person, firm or corporation violating any of the provisions of this Ordinance shall be deemed guilty of a separate offense for each day or portion thereof during which such violation continues and shall be punishable therefor as herein provided.

Section 23. All alternating current motors having a normal rated capacity of one (1) horsepower or over shall be equipped with a no-voltage release switch. All alternating current motors having a normal rated capacity of over two (2) horsepower shall be equipped with an overload protection.

Passed and adopted this 14th day of July, A. D., 1930, by the following vote of the Board of City Commissioners: Commissioners: Hansell, German and His Honor the Mayor
Hesse, ~~Sp~~, voting aye. Noes none

First reading June 30, 1930.
Final reading July 14, 1930.

Approved this 14th day of July, A. D., 1930.

J. D. Hesse
Mayor of the City of Las Vegas.

Attest:

Viola Burns
City Clerk.

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA }
County of Clark } ss.

C. Russell Squires, being first duly sworn, deposes and says: That he is
Business Manager of LAS VEGAS AGE, a tri-weekly newspaper, of general cir-
culation, printed and published at Las Vegas, in the County of Clark, State of Nevada, and
that the attached

Ordinance No. 161 of the City of Las Vegas, Nevada

was continuously published in said newspaper for a period of one week

from July 17, 1930

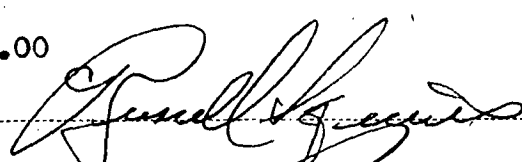
to July 24, 1930

inclusive, being the issues of said newspaper for the following
dates to-wit: July 17, 19 and 22, 1930

That said newspaper was regularly issued and circulated on
each of the dates above named. That the charge for publishing
the same was

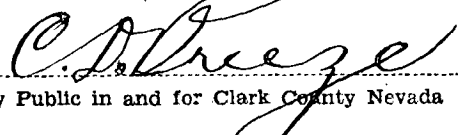
\$244.00

Signed



Subscribed and sworn to before me this 7th

day of August, 1930



Notary Public in and for Clark County Nevada

My Commission Expires

May 26, 1931

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ORDINANCE NO. 161.

An Ordinance regulating the business of doing electrical installation, fixture and connection work and providing for the examination of persons engaged in the same, creating a Board of Examination, regulating the sale of electrical fixtures and appliances, providing for the licensing of electrical workers, providing additional regulations for electrical installations, fixing a penalty for the violation thereof, and repealing Ordinance No. 156 of the City of Las Vegas, entitled "An Ordinance regulating the business of doing electrical installation, fixture and connection work and providing for the examination of persons engaged in the same, and creating an examination board, and providing a penalty for a violation thereof," and repealing Ordinance No. 128 of the City of Las Vegas, entitled "An Ordinance providing for the licensing of electrical workers in the City of Las Vegas, and fixing a penalty for the violation thereof," and repealing all Ordinances and parts of Ordinances in conflict with the provisions of this Ordinance.

THE BOARD OF COMMISSIONERS OF THE CITY OF LAS VEGAS DO ORDAIN AS FOLLOWS:

Section 1. On and after the passage, adoption and completed publication of this Ordinance, it shall be unlawful for any master electrician

to do, or attempt to do, or cause to be done, except as hereinafter provided, any electrical installation, fixture or connection work, whether original work or alteration, within the City of Las Vegas, without first undergoing before a Board an examination, as to his competency as an electrician or electrical worker and procuring from such Board certificate thereof. Said Board of Examination shall consist of three members, one of whom shall be the Chief of the Fire Department, one shall be the Electrical Inspector and the remaining member shall be a licensed master electrician, said latter member to be appointed by the other two members of the Board of Examination, but the person so appointed may at any time be removed by the Resolution or Order of the Board of City Commissioners of said City. Such Board shall organize, adopt rules and regulations for its guidance, and elect one of its members to be President and another its Secretary. An affirmative vote of a majority of such Board at a regular or special meeting thereof shall be sufficient to authorize the issuance of such certificate to any applicant thereof upon such examination, such certificate to be signed by the President and Secretary of such Board. In the event of the failure of said Chief of the Fire Department and Electrical Inspector to at any time appoint such remaining member of said Board, such appointment may be made by the said Board of City Commissioners, and the person so appointed may be removed by said Board of City Commissioners, as above provided. The records of said Board of Examination shall at all times be open to the inspection of the Mayor and any Commissioners of the City of Las Vegas, and such Board of Examination shall make such reports to said Board of City Commissioners from time to time as required by said Board of City Commissioners. In the event the Chief of the Fire Department fails or refuses to act on said Board of Examination his office shall be filled by the Board of City Commissioners on said Board of Examination.

Section 2. Said Board of Examiners shall have the power, and it shall be its duty to cancel and annul the certificate provided for in Section 1 of this Ordinance, of any person holding the same, should it ascertain that such person or persons have done, or habitually do any work or cause or permit or allow to be done, any work not in strict accordance with approved electrical methods as defined by any Ordinance of the City of Las Vegas, or which said Board may regard as dangerous to life or property, and it shall be unlawful for any person, whose certificate has been so cancelled or annulled, to again engage in such work until he has been reinstated by the Board of Examination and a new certificate issued to him.

Section 3. Before filing with said Board of Examination, his application for an examination, as provided on Section 1, the applicant for an examination shall pay a fee of Ten Dollars, and such examination shall be held by the Board of Examination not more than thirty days after the filing of the application, of which applicant shall receive at least three days' notice. Such fee shall be paid to the City Clerk.

Section 4. The word "person" as used herein shall include also any firm of persons or corporation. A "master electrician" within the meaning of this Ordinance is a person, firm or corporation actively engaged in the business of installing, altering and/or repairing electrical wiring, of electrical lighting or heating apparatus for others, directly or by means of agents or employees. A "journeyman electrician" within the meaning of this Ordinance is a person employed by a master electrician to supervise under the control and direction of a master electrician the installing, altering and/or repairing of electrical lighting or heating apparatus or to do installing, altering and/or repairing of electrical wiring or electrical lighting or heating apparatus.

It shall be unlawful for any journeyman electrician to do electrical work in the City of Las Vegas without first procuring a certificate therefor as herein provided. Every application for a certificate as journeyman electrician within the City of Las Vegas shall be made to the Electrical Inspector, and shall be issued by the Electrical Inspector only when the applicant therefor shall by written examination have established to the satisfaction of the Board of Examination aforesaid that such applicant possesses the qualifications necessary to do the work of journeyman electrician within the said City and properly install electrical wiring and electrical lighting and heating apparatus in accordance with the provisions of the then existing ordinances of the City of Las Vegas relating to such work, or properly supervise the installation of electrical wiring and electrical lighting and heating apparatus. The fee for the examination for journeyman electrician shall be Five Dollars (\$5.00) and shall be paid to the Electrical Inspector upon application for certificate.

Every person of the age of twenty-one years or over, engaged in work as master electrician or journeyman electrician in the City of Las Vegas at the time of the taking effect of this Ordinance, shall apply for and receive a certificate of competency from said Board of Examination before continuing such work, but shall not be required to submit to examination in order to receive the same. The provisions for taking out license and for annual renewal of license of master electricians shall apply to the master electricians mentioned in this paragraph. In case of revocation of a certificate of competency, as herein provided for, such person shall submit to and pass an examination for competency before such Board of Examination before being reinstated and having a new certificate issued to him. The revocation of certificate of competency of a journeyman electrician may be had in the same manner and with the same effect as

ORDINANCE No. 161, Continued
(Continued from Page 4)

hereinabove provided for the revocation of certificate of competency of master electrician.

Section 5. Any person failing to pass such examination as herein provided for shall be entitled to have returned to him the fee paid to the City Clerk as hereinabove provided.

Section 6. No license shall be granted to a master electrician until a fee of \$25.00 therefor shall have been paid to the City Clerk of said City, which shall constitute the fee for the current calendar year, or portion thereof, in which such license shall be issued. Any license issued to any master electrician shall expire at the end of the calendar year, provided, that upon payment of an annual license fee of \$25.00, such license shall be renewed yearly until revoked.

Section 7. No master electrician shall allow or permit anyone except himself, or his agents or employees, to install, alter and/or repair any electrical wiring or electrical lighting or heating apparatus or equipment under any permit therefor obtained by him. Any violation of this paragraph of this Ordinance shall be deemed sufficient grounds for revocation of his license as such.

Section 8. No person, firm or corporation shall engage in the business of selling electrical supplies and/or of contracting electrical installations, alterations and/or repairs, for any purpose whatsoever without first having procured a license therefor and deposited with the City Clerk a surety bond in the sum of One Thousand Dollars (\$1,000.00). The bond shall be conditioned upon the faithful performance of all work entered upon or contracted for in strict accordance and compliance with the terms and requirements of all Ordinances of the City of Las Vegas regulating electrical installations, alterations and/or repairs, and all amendments thereto.

The bond shall be conditioned also that the one so bonded shall without additional charge remedy any defect due to faulty workmanship, incorrect construction and/or defective or unapproved material, devices, appliances, etc. installed, furnished or used by the one so bonded or his agent or employee therefor, and that the one so bonded shall remedy all defects, replacing all unapproved material, devices, appliances, etc. with approved ones, to the satisfaction of the City Electrical Inspector after due notice, within fifteen days or other reasonable time as specified by the City Electrical Inspector and the written opinion of the City Electrical Inspector shall be binding upon all parties thereto.

The bond shall be a continuing obligation against the depositor and sureties thereon until the entire amount thereof shall have been exhausted. In case the bond shall be decreased on account of any recovery which may be obtained arising out of the violation of any conditions of the same, the City Electrical Inspector shall require an additional bond be given in accordance with this Ordinance in amount sufficient when added to the unexpired amount of the original bond shall total the amount of the original bond.

The City of Las Vegas may for itself, if injured or damaged by reason of failure to comply with the provisions of this Ordinance, maintain suit on the bond in any court having jurisdiction, or suit may be obtained thereon by any person, firm or corporation injured or damaged by reason of failure of the one bonded to comply with the provisions hereof.

Section 9. Application for a license shall be made to the City Clerk. The fee for said license shall be Twenty-five Dollars (\$25.00) and shall be payable annually in advance to the City Clerk of the City of Las Vegas.

Upon receipt of the bond, application and fee the City Clerk shall issue a license which shall expire on the first day of the following year which shall permit the holder thereof to sell electrical supplies, and, when proper notation has been made thereon by the City Electrical Inspector following the successful compliance by the applicant of the provisions of this Ordinance, shall permit the holder thereof to also engage in the business of contracting electrical installation, alterations and/or repairs.

Section 10. Any Electrical Contractor licensed under the provisions of this Ordinance who shall allow or permit other than himself or his accredited representative to obtain a permit to perform electrical work under said license, shall be guilty of a misdemeanor and upon conviction thereof, shall be punished as herein provided.

Section 11. It shall be unlawful for any person, firm or corporation to use or permit or cause to be used, any electrical apparatus or fixtures when said apparatus or fixtures or the installation of same does not conform to all the requirements of this Ordinance.

Section 12. When there are obtainable for any given purpose, materials, fittings, devices or appliances that have been examined by a properly qualified and authorized body and approved, listed and/or labeled as conforming to the standards of the United States Bureau of Standards, or other similar institution of recognized standing, then only such shall be sold and/or used. Such approval is always for a particular use and such approval and label does not mean that the materials et cetera may be used indiscriminately but only for the purpose for which approved. For good cause or when public interest may require, or pending approval the City Electrical Inspector may waive, by writing in advance, the requirements of this section, but such waiver shall apply only to the one particular installation and shall not set a precedent as to further use.

Section 13. The Electrical Inspector shall issue permits, make inspections and shall keep complete records of all permits and inspections, and shall perform such other official duties as may be required under the provisions of this or any

other Ordinance of the City of Las Vegas relating to electrical installations, alterations and/or repairs. The Electrical Inspector shall pay all monies collected from fees for permits, etc., to the City Clerk daily, together with a duplicate of each permit issued for that day.

Section 14. The City Electrician periodically shall make a thorough reinspection of the installation in or on buildings and/or premises of all electric wiring, electric devices and electrical material now installed or that may hereafter be installed, within the City of Las Vegas; and when the installation of any such wiring, devices and/or material is found to be in a dangerous or unsafe condition, the person, firm, corporation or political subdivision owning, using or operating the same shall be notified in writing, and shall make the necessary repairs or changes required to place such wiring, devices and material in a safe condition and have such work completed within fifteen days, or other reasonable period specified by the City Electrical Inspector in said notice and shall pay such fees as are required by any of the ordinances of the City of Las Vegas relating to electrical installations, alterations and/or repairs. The City Electrical Inspector is hereby empowered to disconnect or order the discontinuance of electrical service to such wiring, devices and/or material so found to be defectively installed until the installation of such wiring, devices and material has been made safe as directed by the City Electrical Inspector, and any person, firm or corporation or political subdivision ordered to discontinue such electrical service shall do so within 24 hours and shall not reconnect or allow it to be reconnected until notified to do so by the City Electrical Inspector. Provided, however, that no reinspection shall be made in any dwelling house, while same is occupied as a dwelling, without the consent of the occupant thereof. No person or persons shall hinder or prevent the City Electrical Inspector or his deputies from making any electrical inspection except in dwelling houses.

Section 15. The Electrical Inspector shall charge the sum of \$1.00 for each survey of a proposed electrical installation, alteration or repairing, for which a permit has not first been issued, which amount shall be paid by the person, firm or corporation responsible for such survey, and such sum or sums so received shall be handled and disposed of by such Electrical Inspector as all other fees collected by him.

Section 16. Rigid conduit shall be used in concrete tile buildings on such portions of the installation where it is necessary to install outlets, plugs and switches in the tile.

All conduit used in underground installations shall be galvanized or sheradized and all joints must be leaded or its equal and made water tight. The use of running thread in underground installation is prohibited.

Outlet boxes smaller than a four-inch octogan box shall not be used on concealed conduit work.

Three and one-fourth inch outlet boxes may be used on open conduit work provided that receptacles or drop cords are used.

Table for number of wires to be used in outlet boxes:

Size of Wire	No. 14	No. 12	No. 10	No. 8	No. 6
1½x4 Octagonal or Round	9	7	5	4	
1½x4 Square	12	10	8	6	4
1½x4 11-16 Square	16	13	10	8	6
21-8x4 11-16 Square	20	16	12	10	8

In stepping down wires sizes splicing of small wire on to larger wire shall be prohibited. Wires shall be brought into a panel and properly fused. All sub-feeds shall have a disconnecting switch and shall be fused according to size of wire.

All disconnect switches shall be permanently-grounded.

Section 17. Ceiling outlets for Assembly Halls, Schools, Hospitals, Churches and Public Buildings shall be as follows:

Corridors	50 watts
Breakfast rooms	100 watts
Bed Rooms	100 watts
Bath Rooms	100 watts
Toilets	50 watts
Auditoriums	1 watt per square foot—200 watts per outlet
Rooms	1 watt per square foot—200 watts per outlet
Kitchens	1 watt per square foot—150 watts per outlet
Laundries	1 watt per square foot—200 watts per outlet

Ceiling outlets for residences, flats and apartments shall be as follows:

Porches	50 watts
Reception halls	100 watts
Passage halls	50 watts
Living rooms	150 watts
Dining rooms	100 watts
Beam lights	50 watts
Dens	100 watts
Music Rooms	100 watts
Libraries	150 watts
Bed Rooms	100 watts
Bath Rooms	150 watts
Toilets	50 watts
Breakfast rooms	100 watts
Closets	50 watts
Laundries	100 watts
Basement Lights	50 watts
Bracket Lights	50 watts

All light outlets on front and rear porches (sleeping porches excepted), bath rooms, toilets, laundries and kitchens shall be controlled from wall switches, and lights in any room having running water shall be controlled from wall switches.

There shall be installed at least one convenience outlet in the kitchen, breakfast room, service porch or laundry in every dwelling place.

Convenience outlets shall not be installed in ironing cabinets.

Ceiling outlets for store and shop rooms shall be as follows:

Sales rooms	1 watt per square foot—200 watts per outlet
Basement and storage rooms	1/2 watt per square foot—100 watts per outlet
Commercial buildings	1/2 watt per square foot—100 watts per outlet
Window outlets	50 watts per lineal foot—150 watts per outlet
Automobile Storage Rooms	1/2 watt per square foot—100 watts per outlet
Wash Racks	1/2 watt per square foot—100 watts per outlet
Garages (Public)	1 watt per square foot—200 watts per outlet

Section 18. A master switch must be installed where there are more than two meter switches in one building.

Troughing must be provided where there are more than two meter switches and where larger than three No. 8 wires are used.

Flexible conduit shall be strapped within twelve inches of outlet and every three feet along the run.

Rigid conduit shall be strapped within three feet of outlet and every five feet along the run.

Wires shall not be pulled in conduit for a distance greater than seventy feet without the installation of a pull box. Pull boxes may be installed in an accessible attic and made dust proof.

Knocking of joists is permissible if knotted one-fifth the depth of the joist and not more than three times the depth of the joist from the bearing surface.

Porcelain sockets shall be used over all grounded floors where the sockets are less than 8 feet above the floor.

Section 19. All electric signs shall have the approval of the Electrical Inspector.

Electric signs shall be wired on separate circuits. Switches controlling sign or outline lighting shall be externally operable.

When signs are not within sight of the switch, the switch shall be of locking type.

Section 20. Weatherproof wire shall be used in the installation of yard wiring.

In yard wiring, where the current carrying conductors support the lights, wooden spreaders of not less than 12 inches in length shall be used. Spreader shall be placed every 10 feet along the run, and shall have an approved insulator on each end and conductors shall be securely fastened to these insulators.

Conductors are to be dead ended on a suitable bracket or insulator at each end of the run.

A galvanized iron wire of not less than No. 12 gage shall be continuous from one end of run to the other, and shall be securely fastened to the center of each spreader. The galvanized iron wire shall be securely fastened at each end of run so as to act as a messenger and release the strain on the current carrying conductors.

All yard lights shall be equipped with weatherproof sockets.

Section 21. All ground connections shall run to a cold water pipe and fastened by an approved ground clamp. Where it is impracticable to connect to a water pipe a ground rod of not smaller than 1/2-inch galvanized pipe (or its equal) shall be used.

Section 22. Open wires shall be separated from contacts with walls, floors, timbers or partitions through which they pass by tubes or bushings composed of approved non-combustible, non-absorbitive insulating material.

Wires passing through cross timbers in plaster partitions shall be protected by an additional tube extending at least three inches above the timber where it is impracticable to use tubes or bushings loom may be substituted.

Section 23. All alternating current motors having a nominal rated

capacity of one (1) horsepower or over shall be equipped with a no-voltage release switch. All alternating current motors having a normal rated capacity of over two (2) horsepower shall be equipped with an overload protection.

Section 24. Every person, firm or corporation violating any of the provisions of this Ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine of not less than Five Dollars nor more than Three Hundred Dollars or by imprisonment in the City Jail for a period not exceeding One Hundred and Fifty Days, or by both such fine and imprisonment.

Section 25. Ordinance No. 156 of the City of Las Vegas, entitled "An Ordinance regulating the business of doing electrical installations, fixture and connection work and providing for the examination of persons engaged in the same, and creating an examination board, and providing a penalty for a violation thereof" is hereby repealed.

Section 26. Ordinance No. 126 of the City of Las Vegas, entitled "An Ordinance providing for the licensing of electrical workers in the City of Las Vegas, and fixing a penalty for the violation thereof" is hereby repealed.

Section 27. All Ordinances and parts of Ordinances in conflict with the provisions of this Ordinance are hereby repealed.

Section 28. This Ordinance shall be in effect from and after its passage and adoption and publication for a period of one week (three issues) in The Las Vegas Age, a tri-weekly newspaper published in the City of Las Vegas.

Section 29. Every person, firm or corporation violating any of the provisions of this Ordinance shall be deemed guilty of a separate offense for each day or portion thereof during which such violation continues and shall be punishable thereafter as herein provided.

Passed and adopted this 14th day of July, A. D. 1930, by the following vote of the Board of City Commissioners:

Commissioners Hansell, German and his Honor the Mayor Hesse, voting aye. Noes none.

First reading June 30, 1930.

Final reading July 14, 1930.

Approved this 14th day of July, A. D. 1930.

J. F. HESSE,
Mayor of the City of Las Vegas.

Attest:
VIOLA BURNS, City Clerk.

(City Seal.) July 17-19-22.

READ THE AGE!!