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Industry Report

Having Supply Chain Issues?



Jeff Kunkel,
Chair of the
Board of Directors

If you're having supply chain issues, ATEK Distribution, a member and generous yearlong sponsor of the Electrical Association, has solutions for you! Read more from Jeff Anderson, ATEK President, below...



Is your business being affected by supply chain issues? Our clients are everywhere, and they are not having this experience!

My name is Jeff Anderson, and I'm the president and co-founder of ATEK Distribution. We founded ATEK in

2018 with the mission of making it easier for electricians to locate the products that they need. To do this, we locally source our products. While this may seem like electrical distribution on a small scale, we've been successful in applying this method to not only local projects, and national projects, but also international projects as well.

I've spent nearly three decades in the industry, and I know that running a smaller contractor business is difficult enough without unforeseen factors. ATEK understands that these small businesses give opportunities to families and communities that larger enterprises just can't, and they're the ones who need our support.

Much like the Electrical Association, whom we've been a proud member of for 3.5 years, we staff our team with the best. With our team in place, we've supported some extraordinary projects.

On a local level, ATEK has supported municipal and city government agencies, and educational institutions such as the University of Minnesota. At U of M, we provided critical infrastructure for a systems upgrade. ATEK provided a 15kV medium-voltage, vault-mounted SF6 gas

switchgear to build out necessary upgrades. The upgrade increased capacity to provide power to three new buildings that the university constructed.

On a national level, ATEK supports the military and is a certified Service-Disabled Veteran-Owned Small Business (SDVOSB). We've completed projects for Pope Army Air Base, Ft Bragg and continue to grow our team with more of our talented veterans.

We've also worked with a local minority contractor to deliver all lighting, load centers, panelboards, and miscellaneous electrical materials for the construction of state-of-the-art senior-living facilities in Ladd, Newton, and Henry, Illinois. These HUD-funded locations were part of a funding initiative by Illinois to increase services in smaller municipalities.

On an international level, the US State Department created a project to modernize and upgrade lighting at the American Embassy in Islamabad, Pakistan. ATEK provided all the LED lighting for the UNISON-sourced project. The project resulted in significantly increased energy savings with lower maintenance overhead.

Let us help you complete your projects under budget and on time. We can provide the set-asides needed to help you compete for local, state-funded, and federal projects.

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Apprentices—Important Dates!

- July 8 Early-Bird Deadline to Save \$50**
- July 29 Early-Bird Deadline to Save \$25**
- Sept 21 Registration Deadline to Avoid Late Fee \$150**
- Sept 27 First Night of Class!**



Read more about the Apprenticeship Training Course on page 11.



11-week Exam Prep Class!

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Sept 27 - Dec 20, 2022

Read more on page 7.



www.electricalassociation.com



Clara Albert, CAE, Executive Director



If you have any comments, questions, or concerns, please call me.

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Executive Director

Reflecting on the Association's History

I can hardly believe that it has been 2 years since the Electrical Association revealed a new brand identity to the electrical industry. May of 2020, there was a change in the news story from COVID restrictions to an exciting future for the Electrical Association. We wanted to come out of a pandemic ahead and thriving (onward and upward) and we did just that. Thank you to the forward thinking leaders of this organization who continue to keep EA relevant, necessary and successful so all electrical contractors have a partner and a resource in this crazy world.

The rebrand was initiated during our 2019 Strategic Planning session where the need for a refresh was determined. The new logo was inspired by a closed circuit and is representative of safety and connectivity. The mark is off kilter indicating a state of motion and a drive for excellence. The metallic copper represents copper wire, the solid blue honors our previous identity and the optimistic green is a nod to sustainability. The new logo also forms a Delta inside the three pillars.

We wanted to take a moment to celebrate the 2-year anniversary of our new identity while reflecting back on our history. This Association has always had a founda-

tion that has been solid and strong allowing for innovation and growth. Representing electrical contractors for 94 years is extremely impressive.

During the rebrand we identified our essential value – the conduit. (1) a way of connecting two places, systems, etc. (2) a way of connecting two people or organizations (3) something that carries or moves information. For over 90 years, the Electrical Association has been supporting contractors in Minnesota and beyond. Offering access to what electrical contractors need to succeed and thrive in today's marketplace. The Electrical Association serves as a conduit to information, education, connections and protection. Remaining true to our essential value as we develop new strategies for the future is vital.

Looking Forward

Leadership of EA met this past April to hold the next Strategic Planning session. The visioning that occurred was top notch and we are ecstatic as a team to dive in and execute. The five main goals include the following:

Executive Director—Cont. on pg 3

The Power to Help Protect Your Employees

Federated Insurance provides innovative, industry-specific employee training and resources to help protect your team, business, and bottom line.

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Safety Leadership Starts With You

Risk Management Leaders! You have a responsibility to help keep your operations running smoothly and ensuring your employees are working to the best of their abilities. Safety leadership must start at the top—with you.

When it comes to risk management, identifying the root causes of accidents and injuries and remedying them immediately using a risk management plan can help create a healthier, more stable business. Take the time to periodically conduct a workplace analysis that includes the inside and outside of the building: General operations; Machines and equipment; Employee processes and work practices; Housekeeping safety, clean walking surfaces; Well lit and organized storage and loading zones; Any other areas and activities necessary to perform safely.

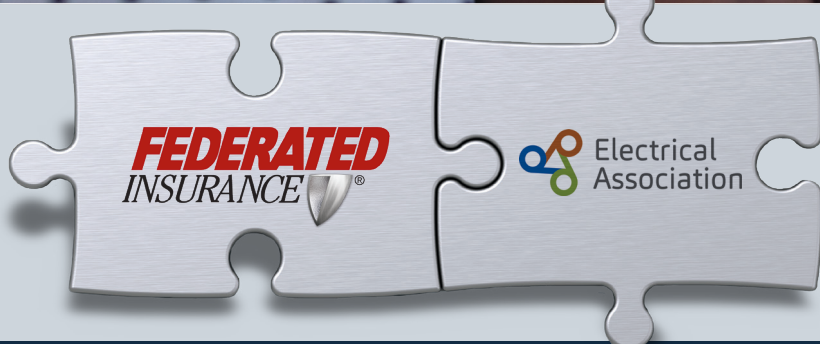
Take notes when potential hazards are found, gather the information, and develop plans for what is needed to control situations that may lead to unacceptable consequences. As necessary, endeavor to promptly correct workplace hazards. Safety guidelines are more effective if they are presented in a written format. Create a formal safety manual and present it to employees. In this, include the means for holding employees accountable for any unsafe work habits or conditions.

As a leader, you should demonstrate a high level of understanding for the safety of your business, and your actions should reflect the culture of a workplace that encourages others to follow your lead. If you see areas that need work, note them and address them. Any employee infractions should be documented and followed up on, and training should be assigned promptly.

Your employees are on the front lines, and often interact with job-specific risks that you may not be entirely familiar with. If they raise safety concerns about areas of their jobs, take the time to listen to them, and work to remedy the situation. Job hazard analyses are also more accurate when employees are involved. By working alongside your employees, you can keep them involved in regular training.

Condensed from www.federatedinsurance.com

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Executive Director—Cont. from pg 2

1 Future Workforce

Contractors have access to a large population of skilled workers

2 Code Leadership

Explore EA contractors having a voice in the development and implementation of the electrical code

3 Education

Provide educational opportunities for members and their employees to obtain critical training they need to prosper

4 Advocacy and Action

The voice and interests of electrical contractors is heard and represented with state legislators, regulators, and industry stakeholders

5 Contractor Perception

Customers value EA member companies as safe, efficient and professional

The Vision created for EA

Electrical Association member contractors deliver the highest quality, safest, most efficient and innovative services. The efforts put into the 5 goals listed above will help our vision become a reality.

You will learn more about how you can help and benefit from all of these initiatives as we move through them.

Thank you to everyone who has supported us over the years with your membership dollars, your business, and your time. Many companies have been with us at least 40 years, and there are many more who have been with us for 30, 20, and 10 years! When the average association membership is about 5 years, we are very proud that our members are so loyal to us!

Looking Back

If you've been around more than a couple of years, you might remember some of our logos. We thought it would be fun to look back on how our brand has changed over the years.



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Electrical Association

Compliance

Updating Employee Handbooks



Tom Revnew
Attorney, PRK&A

Tom is a Shareholder at Peters, Revnew, Kappenman & Anderson, P.A., a firm representing employers in a full range of employment law issues and litigation in Minneapolis, Minnesota.

The employee handbook is an important tool for any employer to have—it sets out the policies and procedures with which employees are expected to comply, establishes the at-will nature of an employee's employment, and following a thorough, compliant handbook helps establish a powerful defense to employee harassment and discrimination charges and lawsuits.

But employment law can change quickly, and it's equally important that your employee handbook be kept current. We recommend updating your handbook(s) on an annual basis—either the beginning or middle of each year works well.

Notably, if you're a Minnesota employer (or an employer with Minnesota employees) and haven't updated your handbook in the last few years, it's especially important to do it now. As an example, effective July 1, 2019, Minnesota introduced new recordkeeping requirements.

Employers must maintain "a list of the personnel policies provided to the employee, including the date the policies were given to the employee and a brief description of the policies." This means it's more important than ever to ensure that all company policies are combined into a single employee handbook, as the easiest way to comply with this requirement is to include in the handbook a list of all policies and the date that the handbook was given to the employee.

This requirement applies to all employees (not just new employees), and the records must be kept for three years.

Depending on how recently your company's handbook was updated (and how thoroughly), there are any number of other considerations

that may need to be involved in an update, including but not limited to notices regarding wage disclosure, and important wording to be added to the equal opportunity and anti-harassment policies.

More changes are constantly on the way, so if you're not already doing so, consider updating your employee handbook(s) now and revisiting them on about a yearly basis.

PRK&A have a standing offer for members of the Electrical Association that will fulfill your handbook requirements.

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Dean Hunter
Chief Electrical
Inspector

Electrical Inspection

Change is ahead: Significant changes to the 2023 NEC

If you read the last edition of the newsletter, we discussed the structure and article changes that are being proposed for the 2023 NEC. This article will cover what I would call “some” of the significant changes of the 2023 NEC.

Obviously, we can’t cover “all” of the changes, so I have picked a few that I believe will have a larger impact on electrical installations.

110.26 Spaces about Electrical Equipment.

The requirement for open equipment doors not impeding the entry or egress was rewritten to be included for all electrical equipment. Until now, the dimension of the access or egress openings to the working space, and the language regarding the open equipment door impeding the entry, only applied to 110.26(C)(2) “Large Equipment” over 1200 amps (separate enclosures or accumulative service disconnects) and 6’ wide.

210.8 Ground-fault circuit-interrupter protection for personnel. This change added requirements for listed GFCIs and removed the reference to “windows”. The language ensures that cords passing through openings within the measured distances of a sink are afforded GFCI protection.

210.8(A) Dwelling Units. (6) Kitchens GFCI protection was expanded to address any receptacles located in a dwelling kitchen, regardless of whether the receptacle serves the countertop or not.

210.8(D) Specific Appliances. Five additional cooking appliances were added to the list that will require GFCI protection: electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers and microwave ovens. Many of these appliances already required GFCI protection by virtue of their location; however, protection was only necessary if the appliance was connected to a receptacle outlet. By moving the appliance list to part (D), the GFCI protection will apply to all “outlets” (hardwired or receptacles) and not limit the protection to only “receptacle outlets”.

210.8(F) Outdoor Outlets. This section was revised to expand coverage of GFCI protection for dwelling outdoor outlets at: garages with floors at or below grade level, accessory buildings, and boathouses. In addition, replacement equipment under this section would require GFCI protection.

210.12 Arc-Fault Circuit-Interrupter Protection. Expansion of AFCI protection in both bathrooms and garages failed ballot during the second draft. There was new language added in (D) to address sleeping areas that are not defined as a “dormitory unit”. In the 2023 NEC, fire stations, police stations, ambulance stations, rescue stations, range stations, and similar building that contain sleeping areas, will be required to have AFCI protection. It was argued that these locations present the same electrical and fire hazards as dwelling units and should be treated similarly.

210.52(C)(1- 3) Countertops and Work Surfaces. The requirement for receptacles serving the countertop or work surface(s) of an island(s) or

peninsula(s) is made optional; however, a provision for adding a receptacle at a future date must be provided. Additionally, if you install a receptacle on a work surface or countertop space, they will no longer be allowed below the countertop surface.

215.15 Barriers. This change addresses the need for barriers to be installed in panelboards, switchboards, switchgear, or motor control centers supplied by feeder taps in 240.21(B) or transformer secondary conductors in 240.21(C). This is a similar rule that was covered previously in section 230.62(C) for services.

215.18 Surge Protection. A surge protective device will now be required for feeders that supply power to dwelling units, dormitory units, guest rooms and guest suites of hotels and motels and areas of nursing homes and limited-care facilities that are used exclusively as patient sleeping rooms. A similar change was added to “outside feeders” in section 225.42.

MN DLI - Cont. on page 5

Dean Hunter is a licensed master electrician who has been active in the electrical industry for over 35 years. Before working with the CCLD, Dean was an electrical contractor, project manager and an instructor for the construction electrician program at MN State Technical College in Wadena. He is the education chairman for the MN Chapter of the IAEI, and has served as an IAEI rep on CMP-7 (formally CMP-19) during the last four NEC code cycles. Dean also participates as a technical committee member on NFPA 225, 501 and 501A, and recently, was appointed to the NEC Correlating Committee.

You Need to Know

COMPLIANCE

Board of Electricity reviews the 2023 NEC...

The Board of Electricity will begin reviewing the proposed changes. Later this summer, DLI will host a presentation for board members and the public to review the significant changes of the 2023 NEC. After a formal review process, the board’s rules subcommittee will make recommendations regarding the NEC adoption, and any amendments, to the full board. Historically, the board has worked towards implementing each newly adopted NEC on July 1 of the code cycle year in which the NEC is published. (CCLD Review. Summer 2022)

CONSTRUCTION TRENDS

US Residential Construction... Privately-owned housing starts in May were down 14.4% from April and is 3.5% below the May 2021 rate. (census.gov. June 2022)

ECONOMY

US Consumer Price Index... The CPI-U increased 1% in May on a seasonally adjusted basis after rising 0.3% in April. Over the last 12 months, the all items index increased 8.6% before seasonal adjustment. (www.bls.gov. June 2022)

MN Interest Rates... 6.09% for a 30-year fixed, 5.35% for a 15-year fixed, and 4.25% for a 5/1 ARM. (bankrate.com. June 2022)

MN State Exports Show Solid 13% Growth... Exports of manufactured, agricultural and mining goods were valued at \$6.1 billion in Qtr 1 of 2022, representing a gain of 13% over the first quarter of 2021. (MN DEED. June 2022)

Small Business Administration’s 504 loans... Looking to expand after the pandemic and buy their own property or office space? An option is the SBA’s 504 loan program. Learn about the program and the simple eligibility requirements: www.sba.gov/funding-programs/loans/504-loans (SBA.gov. June 2022)

LABOR & MANAGEMENT

US Unemployment Rate... Nationally, the unemployment rate stayed the same at 3.6% and the labor force participation rate ticked up a tenth of a point to 62.3%. (MN DEED. June 2022)

MN Unemployment Rate... The rate fell further to 2% in May, a record low since the metric has been tracked in 1976. The decline in the rate over the month was entirely due to people moving from unemployment to employment. The labor force participation rate rose from 68.3% to 68.4%. (MN DEED. June 2022)

You Need to Know - Cont. on page 12

Important Dates

- 7/4 Independence Day
- 7/8 Apprentice Early-Bird expires (Save \$50)
- 7/12 MN Board of Electricity Meeting
- 7/29 Apprentice Early-Bird expires (Save \$25)
- 8/9 MN Election Day (Primaries)
- 8/25 MN State Fair starts



To Do

- ☐ 7/15 MN monthly filers: tax return due for June
- ☐ 7/20 MN monthly Sales & Use tax return for June
- ☐ 7/31 MN qly filers: tax return due for Apr-June
- ☐ 8/15 MN monthly filers: tax return due for July
- ☐ 8/15 Homeowners & renters file for Property Tax refund
- ☐ 8/22 MN monthly Sales & Use tax return for July
- ☐ 8/22 MN monthly Sales & Use tax return due for June Accelerated Filers (remaining payment)



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CODE CONTINUING EDUCATION | APPRENTICE

Tim Zinniel has always gone above & beyond when it comes to playing a leadership role at the Association. Tim has served on the Board of Directors for the Electrical Association for several years, and in 2015-2016, he was elected Chair of the Board of Directors. He comes from an electrical contracting family as his father, Clete Zinniel, started Zinniel Electric in 1978. Tim took over the company in 2015.



- **Electrical credentials:** Master Electrician in Minnesota, South Dakota, North Dakota, Wisconsin, Iowa; Journeyworker Electrician in Colorado; NABCEP Certified PV Installation professional
- **Educational background:** AA in Electrical Construction from Jackson Vocational Technical Institute
- **Experience information:** Started working in the family business as a child, until he officially took over the business in 2015
- **Experience as a teacher with the Electrical Association:** Instructor of Apprentice courses and Code continuing education
- **Publications, awards, certifications:** Electrical Association's Certified Trainer certificate
- **Professional organization affiliations:** Electrical Association Member; Former Chair, Vice Chair, Treasurer, Secretary of the Board of the Electrical Association; MREA member; Chamber of Commerce (Sleepy Eye, MN; Springfield, MN; Morgan, MN; New Ulm, MN)
- **Family, hobbies, interests:** Tim and his wife live in New Ulm, MN. They have two grown children. He enjoys spending his free time with family, or outdoors, traveling, watching movies, reading, deer hunting, and fishing.

Zinniel Electric has been a member of the Electrical Association since 1982—40 years! Thank you for your leadership in the Association and in the Industry.

MN DLI - Cont. from page 4

220.57 Electric Vehicle Supply Equipment (EVSE) Load. A new section was added for calculating EV chargers. EV chargers are now required to be calculated using the larger of either 7200 watts or the name plate rating. The 7200 watt (volt-amperes) minimum requirement is based on a 30 ampere, 240-volt, single-phase circuit.

225.41 Emergency Disconnects. An emergency disconnect will now be required for outside feeders supplying power to dwelling units. The emergency disconnect was first introduced in the 2020 NEC for services supplying dwelling units. The disconnect is required to be located outdoors, and within sight (50') of the dwelling unit. The reason for the emergency disconnect is to provide a means for first responders to disconnect the power to the home before emergency operations continue.

334.10 (2) Nonmetallic-Sheathed Cable "Uses Permitted". In the 2023 NEC, Type NM cable will be permitted in multifamily dwellings, and their detached garages, if they are constructed with a construction type that is either type III, IV or V.

410.71 Disconnecting Means for Fluorescent or LED Luminaires that Utilize Double-Ended Lamps. For the 2023, this section was relocated from 410.130. In prior editions, the disconnecting means for "maintenance personnel" was only required at fluorescent luminaires with double ended lamps. The new language will be expanded to include double ended LED luminaires also.

445.19 Emergency Shutdown of Prime Mover. A new section was added to article 445 to separate the generator emergency shutdown and disconnect requirements. Revisions for the permitted locations for emergency shutdown devices and marking were added this cycle. In addition, the emergency disconnect that is required at one-and two-family dwellings, must shutdown the prime mover and not allow the generator to restart when the disconnect is activated.

547.26 Physical Protection. Type NM cables will no longer be allowed to be concealed within walls or above ceilings of agricultural buildings or portions of an ag building that is adjacent or connected to a livestock confinement area(s).

555.15 Replacement of Equipment. Due to the potential harsh environments around docking facilities, any replacements of existing equipment must be installed to the current NEC standards. When these modifications or replacements of electrical enclosures, devices, or wiring methods are necessary, this section will also allow the AHJ to inspect the existing branch-circuit or feeder supplying the replaced equipment. As a part of the inspection, the AHJ can request repairs to be done to the "existing" damaged cable, wiring method, or equipment, however, the repairs would only be required to meet the minimum installation standards of the NEC edition when that wiring/equipment was originally installed.

555.36(C) Emergency Electrical Disconnects. A new section will require an emergency disconnect within sight (50') of each shore power slip receptacle. This language will help reduce electric shock drownings by removing the potential source

of current in the water closest to the vessel. The disconnect must be externally operable, manually resettable, and listed for wet locations.

690.4(G) PV Equipment installed on Bodies of Water. The NEC will include a new subsection for PV equipment that is floating on or attached to a floating structure installed on a body of water. The PV equipment must be identified as being suitable for the purpose and shall utilize wiring methods that allow for any expected movement.

As I mentioned at the beginning of this article, these are only a few of the proposed changes. This week, I will be attending the NFPA Annual Conference where there will be debates to revise the NEC (yet again) through the NITMAM (Notice of Intent to Amend a Motion) process. So, even though the end is within sight (50' feet away ☺), we still have a couple of hurdles before the 2023 NEC is complete!
—In Safety, Dean

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Introducing our New Product Service Members

We are asking our new product service members to introduce themselves. Please take a minute to get to know them below. They are ready to help you!

Blue Steel Technologies

Blue Steel Technologies started in 2008 as a wire distributor in the Twin Cities metro. In 2021, we became a SDVOSB certified corporation that has expanded into 15 states. We increased our product lines that include Advanced Digital Cable and Genesis for fire alarm and security wiring including outdoor burial, Mircom for fire alarm panels, ABA Cabling for Category cables, SCP for keystone jacks/faceplates, Simply45 for RJ45 plugs, any Primex products, any Viking Drill and Tools products and the Copperhead Industries complete Utility Location System.

Our mission is to supply quality products that are in the specifications on blueprints but are also price sensitive. We will accomplish this by offering free delivery in the 7-county Twin Cities metro area and a shared freight expense outside the metro area. We will also offer extended hours at no extra cost for emergencies.

Our first primary goal is increasing our inventory. We feel that customers should not have to wait for products to start their projects. Each of our partners carry many of the same products. We are open to feedback on what products work but make each project

cost effective. Our second goal is to create a work environment that is safe for everyone. We have created a safety plan that emphasizes the importance of safety especially while making deliveries.

Please check out our website below. We also have Facebook, Instagram, and LinkedIn pages. We are members of the Electrical Association and the US Chamber of Commerce. You can also find us on the BlueBook Network.

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sales@bluesteeltechs.com

Blue Steel Technologies

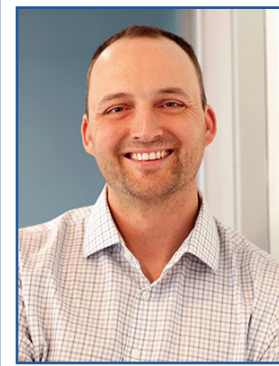
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Matthew Paulson
President/Advisor
Voyageur Capital Adv.

The Stock Market is Dropping

Help Your Employees Avoid Common Mistakes

2021 marked an impressive year for the stock market, with the S&P 500 finishing up almost 29%. 2022 has been a not-so-friendly reminder that stocks also go down.

From an investing perspective, years like 2021 are easy. Money went in and then money went up. Everyone feels smart. It's years like 2022 where people get into trouble. They either reallocate their 401k into whatever has the best performance numbers, or they "wait out" a downturn by moving everything to a money market fund. These types of decisions far too often negatively impact the long-term growth of an investment portfolio.

Because investments tend to revert to the mean, chasing performance will frequently lead to disappointing results. Simply looking at past performance will do nothing to tell you what future results may look like. And continually chasing whatever has done the best may mean you end up buying high and selling low.

For investors who are inclined to sell during downturns, their concern is more about what may happen, instead of what has happened. Most can tolerate watching their retirement account go down some, but as the account value sinks, a little voice starts to creep in, asking "what if this is the big one? Should I just get out until some of the uncertainty goes away?"

Look at world events over the last 100 years and then look at how the stock market has done. The time to invest is often when things feel most uncertain. If you try to time it, you'll likely get it wrong.

As an employer, you can help. Your plan advisor should be your first point of contact to set this up. You may also want to revisit the investment menu and fees to make sure you're fulfilling your fiduciary responsibility.

QUESTIONS? Our goal is to be your financial strategist, navigator and teacher.
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Rely on our Solutions experts and innovative array of electrical building solutions and services that are designed to help you improve safety, save time and money on the most complex of projects.

ENERGY
With the fast pace of technology development and supply chain challenges we are your partner for all your solar +, Balance of System and electrical vehicle charging stations and carport projects and needs.

SERVICES
With a team of technical experts on staff and partnered with the best manufacturers in the industry, we have the knowledge and insight to help you power operational efficiency.



Michelle Dreier
Member Engagemt/
Gov't Affairs Manager

Workforce Development

Programs to Grow Your Workforce

Earlier this year we surveyed membership for pain points and it is quite clear that material supplies and lack of skilled workforce are causing electrical contractors the most difficulties.

Even though the economy is showing signs of weakening, the unemployment rate is 2%. Full employment is typically considered achieved at an unemployment rate of 4%. Leadership discussed our current workforce problems and determined as part of our strategic plan at the Electrical Association we need to get entry-level electricians up to speed and productive quicker as well as retain the existing electrical workforce.

The Electrical Association works with numerous training entities from high schools to adult education to help make this happen.

On June 26, **Lake Street Works** will introduce their new training program for high school students in Minneapolis to the construction industry.

On July 13, **Independent School District 916** will showcase the house that students built this last school year.

30,000 ft, an after-school program that resides across the street from Johnson High School in St. Paul, is looking for a mentor to lead students ages 13-24 through an electrical career exploration activity on July 14. (If you volunteer your time, the Electrical Association will supply the activity.)

VOLUNTEER OPPORTUNITY!!

We are always looking for members to assist in mentoring these programs. We also hope you hire through these programs. Members often say there are floods of applicants for new apprenticeships. What participants from these programs bring to the table is workforce readiness training and often specific training in basic electrical or construction skills.



Stop Suffering! Exam Prep Based on 2020 NEC®

- How to take the licensing exam
- What to expect when you arrive
- The knowledge you need to pass
- Prep Workbook filled with DLI exam-style questions
- Video recording of classes will be posted the next day for your review
- End-of-course exam to test your knowledge
- Trainer Jeff Keljik

11-week course will better prepare you for the exam!

Evenings, Live, Online
Sept 27 - Dec 20, 2022

electricalassociation.com/examprep

Thank You for Joining us at the Summer Conference!

Thank you to our "2023 NEC Update" presenters
Dean Hunter & Marty Kumm
MN Dept of Labor & Industry



Congratulations to Raffle Winners!

Aaron Schutz (St Paul Saints tickets)
Mark Hunter (Whiskey)
Clayton Schenck (Yeti cooler)

Thanks to Sunbelt Business Advisors and Federated Insurance and for donating the prizes!

We Need Your Opinion Please!

The Electrical Association currently holds three in-person events yearly.

At these events we typically hold meetings to plan the business of the Association, provide some educational offerings on a variety of up-to-date industry topics, and socialize with our peers and others in the electrical industry (product service people and inspectors).

We have seen a drop in attendance and are now gathering information to see what we can do to better serve you, and get you to come back to our events or perhaps entice you to give it a try.

Your feedback will be used to make these events better, so please answer freely.

Thank You to Our Sponsors!



2022 Rolle Bolle Champions

Tim Zinniel
Jerry Burich
Matt Bergmann



Scan to take our survey



Thank you for your time and ideas!



Develop Your Career

Education Calendar

JULY							AUGUST							SEPTEMBER						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2		1	2	3	4	5	6					1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31				25	26	27	28	29	30	
31																				

16 Continuing Education Credits (Classroom)

Multi-State Approval (check our website for specific approval details)

- Aug 11-12 (8am-5pm) **St Cloud** Code Highlights, Motor Installations, 70E
- Sept 15-16 (8am-5pm) **St Louis Park (ROUZER)** Code Highlights, You Be the Inspector

Thank you to our Class Host:



- » Both Days—Non-Member: \$335 / Member: \$309
- » One Day—Non-Member: \$195 / Member: \$165

4 Continuing Education Credits (Self-Paced Online)

Multi-State Approval (check our website for specific approval details)

- Self-Paced Anytime! 2020 NEC® Code Highlights Pt 1, 2 (4 CE each)
- Self-Paced Anytime! 2021 NFPA 70E Safety Training (non-code technical credits)
- » Non-Members Price: \$96 / Member: \$88

2 Continuing Education Credits (Online)

Multi-State Approval (check our website for specific approval details)

- Self-Paced Anytime! 2020 NEC® Grounding & Bonding for Unlic Personnel
- Self-Paced Anytime! 2020 NEC® Overcurrent Protection for Unlic Personnel
- Self-Paced Anytime! 2020 NEC® You Be the Inspector Pt 1, 2 (2 CE each)
- Self-Paced Anytime! 2020 NEC® Motors, Controls & GFCI
- Self-Paced Anytime! 2020 NEC® Motors & Transformers
- Self-Paced Anytime! 2020 NEC® Power Limited Pt 1, 2 (2 CE each)
- July 13 (8:00-10:00am) 2020 NEC® Power Limited Pt 1
- Aug 16 (6:30-8:30pm) 2020 NEC® Motors & Transformers
- Sept 8 (6:30-8:30pm) 2020 NEC® Overcurrent Protection for Unlic Personnel
- » Non-Member Price: \$49 / Member: \$44

Exam Prep Training

- Aug 6-7 (8am-5pm) **Bloomington** Two-Day Crash Course
- Oct 1-2 (8am-5pm) **Bloomington** Two-Day Crash Course
- » Non-Member Price: \$570, Member: \$460

Exam Prep Training—NEW!

- Sept 27 - Dec 20 **Online** 11-Week, Tuesday Evenings (6:30-9:30pm)
- » Non-Member Price: \$690, Member: \$590



Also Available—

Exam Prep Pre-Test

55 questions test your knowledge: Are you ready to take the Journeyworker Exam?

Do you need an Exam Prep class?

www.ElectricalAssociation.com/ExamPrep

Self-Paced Exam Prep Course

280 questions give you the opportunity to check your answers and get explanations

Covers NEC and MN Laws & Rules.



Electrical Association

Register! www.electricalassociation.com

800-829-6117 • 612-827-6117



The International Association for Continuing Education & Training (IACET) developed the original Continuing Education Unit (CEU) and today ensures that providers of continuing education and training can prove they provide high-quality instruction by following the ANSI/IACET Standard for Continuing Education and Training through a rigorous accreditation process.

CE Requirements

This is your guide to staying in compliance.

These are the states where our courses are typically approved based on that state's standards. **DOUBLE CHECK** our class website for exact details for the course you are registering for.



Minnesota

- Master A, B..... 16 biennially (12 Code/4 Non-Code*)
- Journeyworker A, B..... 16 biennially (12 Code/4 Non-Code*)
- Maintenance 16 biennially (12 Code/4 Non-Code*)
- Installer A, B..... 16 biennially (12 Code/4 Non-Code*)
- Power limited tech 16 biennially (4 Code/12 Non-Code*)
- Satellite installer 4 biennially (4 Code*)
- Unlicensed 2 annually (2 Code*)
- www.dli.mn.gov *can take all Code



Iowa

- Master A, B..... 18* every 3-yr Code Cycle
- Residential Master 18* every 3-yr Code Cycle
- Residential Electrician..... 18* every 3-yr Code Cycle
- Inactive Master..... 18* every 3-yr Code Cycle
- Journeyworker A, B..... 18* every 3-yr Code Cycle
- <https://iowaelectrical.gov/> *6 on the most recent Code



Montana **Renew licenses before July 15**

- Residential Electrician 16* per 2-yr cycle
- Journeyworker Electrician 16* per 2-yr cycle
- Master Electrician..... 16* per 2-yr cycle
- <http://boards.bsd.dli.mt.gov/ele> *8 Code Update



Nebraska

- Electrical Contractor..... 12 each even-numbered yr
- Journeyman Electrician..... 12 each even-numbered yr
- Resid. Journeyman Wireman 12 each even-numbered yr
- Fire Alarm Installer 12 each even-numbered yr
- www.electrical.nebraska.gov *6 Code; or all Code



North Dakota

- Master Electrician..... 8* due April 30 annually
- Journeyman Electrician..... 8* due March 31 annually
- Class B Electrician 8* due April 30 annually
- www.ndseb.com *4 must be Code



South Dakota

- Electrical Inspector 16* even-numbered years
- Electrical Contractor 16* even-numbered years
- Journeyworker Electrician 16* even-numbered years
- Class B Electrician..... 16* even-numbered years
- Apprentice Electrician..... 16* even-numbered years
- <http://dlr.sd.gov/> *8 must be Code



Wisconsin

- Master Electrician 24 every 4 yrs
- Residential Master Electrician..... 18 every 4 yrs
- Journeyworker Electrician 24 every 4 yrs
- Industrial Journeyworker Elect..... 18 every 4 yrs
- Residential Journeyworker Elect... 18 every 4 yrs
- Registered Electrician..... 24 annually
- <https://dsps.wi.gov>



Wyoming

- Master 16 every 3 yrs
- Journeyworker 16 every 3 yrs
- <http://wsfm.wyo.gov> *8 must be Code



Colorado

- Master 24 every 3 yrs
- Journeyworker 24 every 3 yrs
- Residential Wireman 24 every 3 yrs
- <https://dpo.colorado.gov/> *4 must be Code

Note: We are making a good-faith effort to publish the correct requirements for each state. For your protection, please check your state's website listed above.

Work & Enjoy Life More!

Quiz on the Code

Transformers



- Potential transformers installed indoors or enclosed must be protected with primary fuses.
(a) true
(b) false
- A transformer field connected as an autotransformer is not required to be identified for use at elevated voltages.
(a) true
(b) false
- Transformers rated at 10 kVA are not required to have the impedance listed on the nameplate.
(a) true
(b) false
- Dry-type transformers 1000 volts, nominal, or less, located in the open on walls, columns, or structures, are required to be readily accessible.
(a) true
(b) false
- A 2020 Code change now states that transformer top surfaces that are horizontal and readily accessible shall be marked to prohibit storage of combustible products on them.
(a) true
(b) false
- Each autotransformer 1000 volts, nominal, or less shall be protected by an individual overcurrent device installed in series with each ungrounded input conductor.
(a) true
(b) false

Answers: 1. (a) Ref: 450.4(B); 2. (b) Ref: 450.3(C); 3. (a) Ref: 450.11(A)(5); 4. (b) Ref: 450.13(A); 5. (b) Ref: 450.9; 6. (a) Ref: 450.3(A)

Toolbox Talks

Heat Stress

Your body produces heat as part of its internal chemical processes. If your body is working in a hot environment, it may not be able to shed excess heat through exhalation (breathing) and evaporation (sweating). Emergencies due to excessive heat (hyperthermia) are often seen in people who exercise outside, work outside, or work indoors in poorly ventilated environments during peak hot periods in the summer. If the humidity is high, the evaporation process can slow even more. Keep in mind heat-related emergencies could result from both dry heat, when humidity is low, and days when the humidity level is elevated.

Heat cramps, heat exhaustion, and heat stroke are three heat-related emergencies.

HEAT CRAMPS - Signs, Symptoms, and Treatment

- This person perspires heavily and may have been drinking fluids throughout the day. As you sweat, your body loses water and salt. The water is usually replenished, but



loss of salt can cause cramping. Cramps can develop in the legs, arms, and abdomen. Other signs are dizziness and fainting.

- Move person to a cool place and administer fluids with electrolytes. If the cramping does not subside, or if the person becomes worse or you feel the person needs further care, contact emergency personnel.

HEAT EXHAUSTION - Signs, Symptoms, and Treatment

- This person has been working or playing in a hot environment and has been exposed to excessive heat. The body has lost water and salt. The outside temperature and humidity is making it difficult for the body to cool itself. Results may include shallow breathing, cold clammy skin, dizziness, weakness, heavy perspiration, and possibly unconsciousness.

- Administer fluids with electrolytes if they are conscious, move person to a cool place and contact emergency personnel if the person does not improve quickly or you feel the person needs further care...

Pay attention to your body, report when you're experiencing any of the symptoms of heat illness or heat stress. It could save your life!



Download this complete topic and others for your safety meetings at www.electricalassociation.com/TOOLBOXTALKS

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What makes you happy? Send us a photo and we'll use it on an upcoming safety poster!
(send to rbrunclik@electricalassociation.com)

PRINT and POST in your breakroom!

Find this poster and more at:
www.electricalassociation.com/NEWS

Association Update

Our remodeling project is done! Thank you to the staff, who were both patient and helpful in the process. Thank you to **MELROSE ELECTRIC** for sending a crew to install new wiring! Thank you to **MIKE KLEIN**, Building Committee Chair, who spent countless hours working with the contractors and helping us make decisions. Members—if you need a quiet place to conduct a confidential, off-site meeting, you are welcome to use the new conference room, just give us a call in advance.

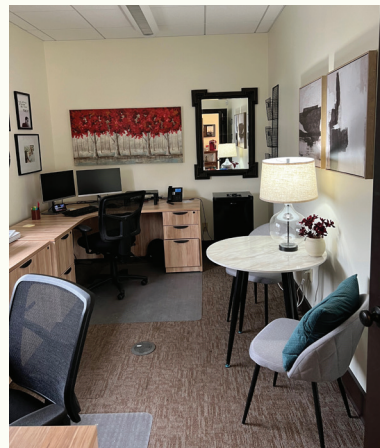
We are proud and grateful for the beautiful, updated office space!



After



Updated conference room



Staff offices



Clara's office



After



Updated conference room with new egress window!



Front lobby



Front office space



After



Updated kitchenette space



Updated basement storage and work spaces



Leviton Car Charger

Leviton is proud to offer a complete line of electric vehicle supply equipment (EVSE) and support services. Whether you are the owner of an electric vehicle, a commercial business owner, public utility company, homeowner, or governmental body, there's an Evr-Green solution for you from the brand you can trust. (AJB Sales • 612-378-1468)



Bergen Temporary Lighting Solutions

Bergen Industries is a recognized leader in the design and manufacturing of construction and maintenance lighting and electrical products for over 40 years. We have standard and customer lighting solutions to fit many different industry needs. Our products are made strong and perform efficiently to handle the demands of commercial use. (AJB Sales • 612-378-1468)



WAGO - NEW 221 Inline Splicing Connector with lever!

WAGO has taken all the advantages of their popular, lever-actuated 221 Series and expanded it with their new 221 Inline Splicing Connector. This connector comes equipped with WAGO's spring pressure, maintenance-free CAGE CLAMP® connection technology, and offers the option of using additional adapters where multiple poles are required. (rouzer.com/wago)

221 INLINE
SPlicing CONNECTOR
WITH LEVER

NEW
PRODUCT

ALL IN A COMPACT SLIM DESIGN

Check out this video for more info!



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Alex Hyatt
National Sales Manager

Member Benefits

Why Online Apprenticeship Training is Preferred by Contractors and Students

Are you looking for a job that is in high demand where you can earn real living wages, all while minimizing debt and educational expenses?

How about a long-term career with flexibility and a balanced work and home life?

Becoming an electrician may be just the right career path for you, and it all starts with proper on-the-job training with an Electrical Association member contractor and additional technical training in our Online Apprenticeship Training program.

Our Online Apprenticeship Training is the preferred method of technical training for both contractors and students, as it allows you to do the following:

- Earn while you learn – Start earning living wages immediately all while eliminating expensive school loans and debt. In 2022, the average student loan debt for a college

education was over \$37,000. The average tuition for all four years of the Electrical Association's Online Apprenticeship Training is only \$5,000 and many Electrical Association member contractors pay for or reimburse at least a portion of the tuition.

- Learn from home – Study at your own pace while applying what you are learning on the job. No travel means less money on gas, less time on the road and more time learning.
- Increasing your value increases your wages – As you increase your efficiency and problem solving skills, you increase your likelihood of a raise.
- Promote yourself – Be ready to pass your licensing exam when you have complete the required 8,000 hours of on-the-job experience.

The electrical trade ranks high among blue-collar jobs that are hard to fill. As more and more Baby Boomers exit the workforce, the demand for skilled electricians has never been greater.

Start your career as an electrician now!



- 1) Find employment with a member contractor near you. Search the database of member contractors at www.electricalassociation.com/AspiringElectricians



- 2) Enroll in the Electrical Association's Online Apprenticeship Training at www.electricalassociation.com/apprentice



If you are ready to start Apprenticeship Training, register now to save with the Early-Bird rate!



www.ElectricalAssociation/Apprentice

Member Spotlight:

David Ross, ISD #271 Bloomington Schools

For this month's Member Spotlight, we are proud to feature David Ross, Master of Record and Construction Project Supervisor for ISD #271 Bloomington Schools.

What drew you to the industry and made you want to become an electrician?

When I was a kid, my uncle worked for NSP, now Xcel Energy. He brought home a discarded fluke meter and gave it to me. I was fascinated by it. Also, my grandfather was a part-time house builder, and I spent a lot of time with him. I was always drawn to mechanical things and how they worked. So that's what got me started and it just grew from there.

After graduating from St. Thomas Academy, I went to UMD for a short while, but returned to the Twin Cities and attended Dunwoody. I was accepted into the Electrical Construction and Maintenance Program and the rest is history. Once I graduated in 1988, I got a job working in the trade and I never left.

Bloomington Schools has been a member for 11 years. What do you value most about the Electrical Association?

The training. The Association has been really flexible with us in getting instructors that we gel with, and bringing a trainer onsite to make it work with our complicated schedule. I don't know of anyone else that's doing that. There probably are some, but you guys do it really well and I appreciate it greatly. It's affordable, it's awesome training and the flexibility is probably the most important thing for me.

What are some of your greatest work accomplishments?

One of the things I'm most proud of is we were able to put a training program in place to get my current partner, Justin Blessing, from a building

engineer to a licensed journeyman. It was a lot of effort, but I was happy to do it. He used the Electrical Association's Apprenticeship Training Program, and put in the time. I think it's pretty fantastic that we were able to do that in-house. (Note: Justin passed his exam on the first attempt!)

Also, when I first started here at the District 17 years ago, one of the things that was severely lacking was our backup power. We have a lot of power outages here in Bloomington and they had been able to obtain a generator, but that was as far as they'd gotten. We're now able to hook that generator up to all but one of our buildings. We can go from power out, to power on with the generator, safely with a transfer switch, in about an hour. As a matter of fact, I just had to use one of the transfer switches recently with the storms that went through here!

What are some of your favorite hobbies and how do you like to spend your free time?

I like things from the past, and have two Model A Fords that I've restored, a 1928 and a 1929. Since those projects are mostly done, I've also started collecting old tools and vices to restore. Outside of

that, it's time with family. My wife, Kimberly, and I have been married for 27 years and we have two adult children and two grandchildren. We enjoy spending time with them whenever we can.



Onsite private training at ISD #271 Bloomington



Tim Pass, Accountant,
Smith Schafer CPAs

Compliance

Midyear Tax Planning Essentials

Whether this tax season left you feeling good or dreading the thought of what will happen next year, there's good news. Summer is an excellent time to reclaim and enact a new tax planning strategy.

A proactive approach to taxes influences more than just what the IRS takes. Tax planning considers both short- and long-term goals against the company's financial activities and current economic climate. There are always ways to save money on taxes; the paths to get there are seemingly limitless. In 2022, these are several midyear tax moves that business owners can make now to reduce tax liability.

Self-Employed Tax Breaks

One of the easiest and smartest ways for business owners to reduce taxable income is to increase contributions to a pre-tax retirement plan. This can be done through the employer-sponsored 401(k), 403(b), or 457(b) plan or through a self-employed plan like a SEP, SIMPLE IRA or a Solo 401(k). If a business doesn't yet have a retirement plan, the IRS provides tax incentives for startup plans.

In 2022, the maximum retirement plan contributions are \$20,500 for employer-sponsored plans or \$6,000 for IRAs. Individuals over age 50 can make catch-up contributions of \$6,500 per year to their 401(k) or \$1,000 to an IRA.

Business owners aged 70½ can use their IRA's required minimum distribution (RMD) as a charitable gift (up to \$100k per individual). Qualified charitable distributions are tax-free, so individuals' taxable income won't increase with the RMD.

Charitable giving is also an option in a year where the business owner would receive a large sum of money, from a bonus or other activity. In those tax years, a large charitable donation would result in a large tax write-off. Some high-net-worth individuals utilize donor-advised funds (DAF) to make a large one-time donation; then, the DAF funds future charitable gifts.

The Qualified Business Income Deduction (QBID) can also be a powerful tax savings tool. Eligible self-employed individuals and pass-through small business owners can deduct up to 20% of qualified business income from taxes. In 2022, QBID begins to phase out at \$170,050 for single filers and \$340,100 for married filing jointly. Even if business owners don't itemize taxes, they can still qualify.

And in 2022, the temporary 100% business meals deduction is still in place. If the business purchases food or beverages from a restaurant, even for takeout or catering, the tax deduction is up from the usual 50% limit.

Health Savings Account (HSA)

For those with a high deductible health plan, HSAs offer a triple tax benefit: contributions are tax deductible, grow tax-free, and distributions are non-taxable if used for qualifying purposes. Money in an HSA, if left in the account, accrues interest and rolls over from year to year. Later, an HSA can be used in retirement. After age 65, there is no penalty for using HSA funds for non-medical purposes. Small-business owners could open an HSA through a bank or financial institution and may not need to go through a health insurance company at all.

2022 HSA contribution limits are \$3650 for individuals; \$7300 for families. Individuals age 55+ by the end of the year can make an extra \$1000 contribution.

Long-Term Tax Planning

There are additional ways to think about tax planning from a long-term perspective. A tax-efficient business is one that uses income, taxes, and deductions to its advantage. Year-round planning might indicate that accelerating income in one year would be more beneficial than deferring it, or vice versa, depending on the accounting method.

Entity selection is another long-term tax planning tool that many business owners may overlook. Especially in high-tax states, paying more tax as a business may be better than paying more as an individual. There is also the consideration of which business entity is the most appropriate if a sale or merger is on the horizon. Changing entity type takes time and planning, and it's not a year-end decision. Modifying the accounting method may be another way to save on taxes, and again, realistically it's something that can't be done in December.

Meticulous, accurate, and timely bookkeeping goes a long way in helping business owners claim every tax incentive they're entitled to. Documentation is key. When there's quality data, business owners can make real-time, informed decisions about future forecasts.

The Second Half of 2022

Looking ahead to the second half of the year, business owners may still be dealing with elements of the most recent filing season for many months to come. The IRS is still working to relieve backlogs from 2020, amended payroll tax returns for the employee retention tax credit continue to be delayed, and many 2021 returns are not yet processed, let alone filed – an Accounting Today article recalled how there may be more extension requests this year than ever before.

QUESTIONS? Smith Schafer is a recognized leader in providing accounting, auditing and consulting services to the construction industry. From large construction companies to specialty contractors, we have the experience to bring you innovative solutions. Call us to schedule a free 30-minute consultation. Mpls 952-920-1455; Rochester 507-288-3277

You Need to Know - Cont from page 4

MN Job Vacancies Reach Record High...

Surpassing 214,000 total openings even as Minnesota employers continue to add jobs. The number of 4th Qtr 2021 vacancies was up 68% compared to 4th Qtr 2020, and up 56% compared to the previous 4th Qtr peak hit in 2018, prior to the pandemic. While vacancies continue to increase, the number of unemployed workers continued to decrease. Minnesota's economy has exhibited steady growth and unemployment rates are now at historic lows. (MN DEED. June 2022)

DEED Announces \$2.1 Million in Funding for Job Creation and Business Expansion in Minnesota...

Three Minnesota businesses are expanding their locations or moving to Minnesota and are expected to create 165 new jobs over the next 3 to 5 years. This funding is expected to leverage more than \$19.5 million in investment to the state. "These expansions will help grow the Minnesota economy for years to come and pave the way for future economic growth." The Job Creation Fund provides financial incentives to new and expanding businesses that meet certain

job creation and capital investment targets. The Minnesota Investment Fund provides loans to companies that create and retain high-quality jobs with a focus on industrial, manufacturing and technology-related industries to increase the local and state tax base and improve the economic vitality for all Minnesotans. The three companies include Cirrus Design Corporations, Duluth; King Technology Inc., Minnetonka; Pelican Bio Thermal, LLC – Maple Grove. (MN DEED. June 2022)

RECALL NOTICES

Schneider Electric™ Recalls 1.4 Million Electrical Panels...

Hazard: The load center can overheat, posing thermal burn and fire hazards. **Remedy:** Schneider Electric is directly contacting all known retailers, distributors, homeowners, and any other individuals that purchased or installed the recalled product. Immediately contact Schneider Electric to arrange to have the recalled load centers inspected by trained electricians to determine if replacement or repair is required. This inspection and any resulting replacement or repair are free of charge. For uninstalled products, consumers should contact Schneider for a free repair/replacement. **Consumer Contact:** Phone: (888) 778-2733 or www.se.com/us/qoloadcenter-safetyrecallnotice. (www.cpsc.gov. June 2022)

MONTANA

Montana License Renewals Due... The 2022 renewals for both Electricians and Electrical Contractors will be at 100% Abatement. This means, there is no cost to renew your license this cycle. However, renewals received postmarked after July 15 will be charged the full regular renewal fee, plus late fees. (<https://boards.bsd.dli.mt.gov/electrical/>)



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Community news

WELCOME NEW MEMBERS

Metro Alarm & Lock..... Savage, MN

SYMPATHY

Harold Freetly... Tom (Tami) Freetly's father passed away in April. Harold worked as a lineman for Northwestern Bell for two years. Harold worked for an electrician in St. James, for seven years. Harold and Arlene purchased Our Own Hardware Store in Kerhoven and also started Freetly Electric in 1956. Harold retired in 1986 and sold the electrical business to his son, Tom. They have been a long-time member and leader of the Association.

CONGRATULATIONS

Mike Miller... Congratulations to Mike (Director of Education) and his family! Mike & Marilyn's youngest daughter welcomed a baby boy into the world. *Felix Richard Miller* was born on June 9. There's no shortage of love for this little sweetheart!



Jamie Quenzer... Congratulations to Jamie (Director of Operations) and Caleb Quenzer! They welcomed their third child to the family. *Riley James Quenzer* was born on May 31. He has a very happy older brother and sister!



Michael Bilben PE, North Central Electrical Engineering Society... Michael Bilben PE, of Michaud, Cooley, Erickson Engineering Solutions elected 2022-23 President of North Central Electrical Engineering Society.

Randy Kuzel President, Sales Specialist, AJB Sales, Elected President of NCEM Club... Kuzel has been elected by the 167 members of the North Central Electrical Manufacturers Club as their 85th President, serving a one-year term for 2022-23. He succeeds Joe Shallbetter. Kuzel's experience is based on working with a wide variety of manufacturers in the residential, commercial and OEM product markets in this region. He is an avid outdoorsman, and proud to support the electrical industry.

THANK YOU! THANK YOU!

Federated Insurance...
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 • Summer Conference - Overall Sponsor; and Lunch & Learn: Cyber Security Presenter



Viking Electric...
 • 2022 Yearlong Sponsor



ATEK Distribution...
 • 2022 Yearlong Sponsor



Border States...

- 2022 Yearlong Sponsor
- Summer Conference - Clay Shooting at River Ridge Shooting Club Sponsor



Sunbelt Business Advisors.

- Summer Conference - "2023 NEC Update" and "Inspectors Prospective Q&A" Sponsor!



North Risk Partners, Metlife, BlueCrossBlueShield...

- Summer Conference - Schell's Brewery Tour Sponsor!
- Summer Conference - Board of Directors Meeting Sponsor!



RAB...

- Summer Conference - Schell's Brewery Tour Sponsor!



Rouzer Group...

- Summer Conference - Lunch & Learn: Cyber Security Presenter



Van Meter...

- Summer Conference - Executive Board Dinner Sponsor!



the Classifieds

Case 560 Cable Plow with Accessories...

- Case 560 cable plow with 125 backhoe, backfill blade, 2-speed transmission, crab steering
- 1818 hours
- New in 1996
- **Inspection:** Equipment is located at Minnesota's Equipment lot (233 Cajime St NE, Isanti; 763-444-8873)



Benders for Sale...

Large variety of sizes, brands and types of handles priced \$10-\$100.



Contact Dave Vander Vegt

(v_v_electric@q.com) or call (763) 286-6105 (noon-6PM weekdays or any time Saturday).

Greenlee 686 Tugger with Gang Box...

- Motor 4000lb capacity
- Very good condition with a storage box.
- \$3200 negotiable
- Delivery is possible



Email Jayson Oswald at

Landmark Electric:

j@Landmarkelectricinc.com.

See Facebook Marketplace for more info: www.facebook.com/marketplace/item/1053545308839442/

Weg Variable Frequency Drives... The Association has several new, overstock Weg VFD-CFW300 for sale: .25/.33hp, Single Phase, 110-127VAC, 1.6A, 6.3x2.8x5.9", No Brake, IP20. \$110/ea or BO. Email info@electricalassociation.com

Rouzer Career Opportunity! Account Manager...

Full-time employee. Must live within the Western North or South Dakota territory. Full-time employee. Read the full job description at www.Rouzer.com/careers.

Seeking to Purchase Merit-Shop Electrical Contracting Shops...

A mid-size commercial and industrial electrical contractor with three locations is looking to purchase merit-shop electrical contractors in both the greater Hudson and Lacrosse, Wisconsin areas, Northern Iowa and Northern Minnesota. For an introduction to this company, contact Rennell at rbrunclik@electricalassociation.com.

Metro-Area Electrical Contractor Seeking an Executive Assistant and an Estimator Residential...

Executive Assistant: A highly organized individual with a passion for making the world a better place is required. I am building an electrical infrastructure company for the evolving electric vehicle market and need someone that shares the passion and will work alongside me so I can spend my time on higher level activities. A high level of energy is required. Helping schedule daily activities, organizing projects, help preparing proposals and building the businesses. Some phone calls and marketing is required.

Estimator Residential: A full-time key position estimating, supervising and running all aspects of various projects with a focus on electrical installations in homes adding power for electric vehicle systems for vehicles such as the new Tesla, Audi, Ford, Jaguar and Chevy. We are also installing chargers at destination locations such as hotels and restaurants. Great customer skills, and problem solving skills required. Visiting homes and job sites to provide quotations is a big part of the job. An understanding of basic code items and management of up to 5 people is preferred. Previous field work experience is preferred. You must have a positive attitude and represent the company as a professional and idealistic organization.

Email your resumes to rbrunclik@electricalassociation.com.

ATEK Distribution Seeking Customer Service Rep...

- ATEK Distribution is a veteran-owned, small-business wholesale electrical distributor providing products and services that support electrical contractors and end users with solar, LED Lighting, EV Charging, and a full range of electrical components.
- Based in Golden Valley; customers throughout the US
- Competitive compensation and benefits package.
- As a relatively new distributor, joining us on the ground floor can present future advancement opportunities as we grow. Our goal is to build trust and empower employees to achieve their best. At ATEK, you will have the opportunity to develop professionally, grow personally and have the flexibility to balance your life's priorities.

Contact Jeff at jeff.anderson@ATEKDistribution.com or 612-454-0042.

2012 Canon Prograf iPF750 Plotter...

Purchased new and haven't had any problems. Pick up in Fairmont. \$1500 OBO. Contact Kahler Electric at 507-235-6334.



Carlton...

48 Carlton UA7AN (4" 45° no bell); 72 Carlton UA9DL (3" 90°); 1200 Carlton UA9DG (1 1/4" 90°); 32 Carlton UA7FNB (4" 45° one bell). Make offer. Pick up in Rushford. Call Glen Kopperud, Norman's Electrical Service. (507) 864-2891

Boom Truck...

2000 Freightliner FL70, TEREX TELELECT; Bucket Boom Service Truck Diesel Auto; HIGHT RANGER HRM; SERIES, 55' high. \$11,980. Call Javad at (612) 221-9612.



Seeking to Acquire...

Are you a business owner seeking an exit strategy that is best for you, your team and clients? We are a local electrical contractor seeking to acquire commercial/light industrial electrical contracting businesses. Email inquires to Rennell: rbrunclik@electricalassociation.com

Postings are a free benefit of membership! Email your listing to Rennell (rbrunclik@electricalassociation.com).

www.electricalassociation.com/classifieds

Submitted by the professionals at MNOSHA Workplace Safety Consultation

Heat-Related Illness



Every year, dozens of workers die and thousands more become ill while working in extreme heat or humid conditions. There are a wide range of heat-related illnesses (from reduced work productivity to serious illnesses such as heat exhaustion and heat stroke) and they can affect anyone, regardless of age or physical condition.

Climate conditions that create a heat hazard include direct sunlight, low winds, high humidity and high temperatures. When these conditions exist, independently or in combination, a heat hazard is created. Going outside on a hot, humid day and working in direct sunlight constitutes high exposure.



The ability for a person to take measures to reduce exposure and sensitivity to heat, for example, avoiding or limiting outdoor activities during the day or wearing personal protective equipment that is designed to mitigate heat buildup, is crucial to protecting employees.

When exposure is not preventable, employers must take measures to protect against heat-related illness. Under OSHA law, employers are responsible for providing workplaces free of known safety hazards. This includes protecting workers from extreme heat. An employer with workers exposed to high temperatures should establish a complete heat illness prevention program. Each of the following items are a necessary part of an effective heat illness prevention program:

- provide workers with water, rest and shade;
- allow new or returning workers to gradually increase workloads and take more frequent breaks as they acclimate or build a tolerance for working in the heat;
- plan for emergencies and train workers about prevention; and
- monitor workers for signs of illness.

Heat-related requirements are covered by Minnesota OSHA (MNOSHA) under its Right-to-know standard (Chapter 5206), which includes harmful

physical agents such as heat, noise and radiation. OSHA's "Occupational exposure to heat" web-page (www.osha.gov/heat-exposure) explains what employers can do to keep workers safe and what workers need to know, including:

- factors for heat illness
- adapting to working in indoor and outdoor heat
- protecting workers
- recognizing symptoms and
- first-aid training

The page also includes resources for specific industries, as well as OSHA workplace standards. Further training materials are available at www.osha.gov/publications/bytopic/heat-illness-prevention.

MNOSHA Workplace Safety Consultation:

We provide free consultation services upon request to employers to assist them in their safety and health efforts without citations or penalties. Priority is given to small employers, especially those in high hazard industries. The only obligation is a commitment to correct serious hazards in a timely manner. Your company's name and file are confidential and not available to MNOSHA Compliance. You can reach MNOSHA Workplace Safety Consultation at osha.consultation@state.mn.us, 651-284-5060 or 800-657-3776. And get more information at www.dli.mn.gov/about-department/our-areas-service/minnesota-osha-workplace-safety-consultation.



Mike Miller
Director of Education

Word on the Street

Testing Manufacturers' Promises

Have you ever thought how significant changes in technology have made our lives more comfortable? I think one of the biggest electrical upgrades we've all experienced is LED lighting. Of course, our use of such technologies requires some quality standards be in place.

In a recent podcast I hosted for the Association, I had the pleasure of connecting with Mr. Mike Verhulst, a lighting consultant with Center for Energy and Environment (CEE) in Minneapolis. He shared a great deal of information about CEE and how it directly guides our selection of lighting products that meet a high standard of performance and longevity.

CEE started as a subsidy of the Minneapolis Division of Energy Conservation in 2001 in order to educate consumers on conserving energy by properly insulating homes. The science of assisting people with energy conservation eventually turned to lighting.

CEE recognized a need to ensure that consumers were getting what they paid for in LED lighting. They support the work of Design Lighting Consortium (DLC) and promoted their work in getting the word out in selecting quality LED lighting.

DLC is a nationally recognized group of college professors, lighting design experts in commercial businesses, lighting manufacturers, and utilities who came together and sponsored testing of LED fixtures on the market and developed tests to enable consumers to know if LED lighting equipment met the manufacturer's promise of warranty, watts/lumen, lumen output, and energy savings.

Those fixtures that did not live up to these advertised standards were not given a DLC designation for their product. Today, DLC designations are

a sought-after marking that indicates a quality LED product. DLC does not evaluate recessed can fixtures, screw-in style LED lamps, or exterior luminaires.

So, electrical workers, here is the ray of hope... DLC has our back when we are working with customers discussing warranty, watts/lumen, lumen output, and energy savings for LED lighting.

So now we know!

Have a SAFE and fun-filled summer!

Have you been listening to our podcasts?

- Episode 1: Material Shortages**
Jeff Anderson, ATEK Distribution
- Episode 2: Retirement Plans**
Dan Gardner, FSC Securities Corp.
- Episode 3: Design Lighting Consortium**
Mike Verhulst, CEE
- Episode 4: Prevailing Wage**
Michelle Dreier, Electrical Association
- Episode 5: Electrical Apprenticeship**
Jeff Kunkel, Kunkel Electric Inc.
- Episode 6: Association Health Plan**
Gary Helm, North Risk Partners



Apps We Like

Electrician's Sidekick

- Connector Selector
- Voltage Drop Calculator
- Conduit Bending Calculator
- Conduit Fill Calculator
- Where to Buy



iOS (free)

We want to know what APPS you're using!

Email your tips to
rbrunclik@electricalassociation.com

Bonus Rebates Still Available for DLC and DLC Premium-Listed Fixtures

For a limited time, lighting projects including DLC and DLC Premium-listed fixtures and retrofit kits are eligible for an **additional 25% in rebates** when completed through the One-Stop Efficiency Shop, sponsored by Xcel Energy. View our updated 2022 interior lighting rebates below.

*Rebate will not exceed the designated cap as a percentage of the project cost. **For qualifying one-for-one replacements only. One-Stop staff will review rebate calculations for non-one-for-one projects.

What equipment is included?

Interior DLC and DLC Premium-listed fixtures and retrofit kits are eligible. Exterior DLC and DLC Premium-listed fixtures and retrofit kits are not eligible.

How much more will my customers earn?

DLC and DLC Premium-listed fixtures and retrofit kits will receive **25% more** in rebates.

What deadlines do I need to meet?

- Purchase and install equipment between April 15 and November 15, 2022
- Submit invoices to One-Stop staff by Nov 15, 2022.

Contact us at onestop@mncee.org with questions about bonus rebates. mncee.org/onestop.

Equipment	kW	kWh	Cap*
Screw-in Lamps and LED tubes	\$160	\$0.08	50%
Non-DLC luminaires/retrofit kits & LED High Bays (replacing HIDs)	\$200	\$0.10	60%
DLC-listed luminaires/retrofit kits	\$300	\$0.15	75%
DLC Premium-listed luminaires/retrofit kits	\$375	\$0.19	75%
DLC Premium-listed High Bay luminaires/retrofit kits (replacing existing T8/T5 High Bays)**	\$600	\$0.30	75%

Eligible participants must have an active commercial account within Xcel Energy's Minnesota service territory and a peak electric demand of 400kW or less. Center for Energy and Environment, a local nonprofit and EA member, implements the One-Stop Efficiency Shop® on behalf of Xcel Energy.

Upgrade Your Lighting and Earn Rebate Dollars on Top of Rebate Dollars

Xcel Energy is offering additional rebates on top of our standard rebates to help off-set the purchase price for upgrading to high-efficient equipment. Do you want to help your customers enhance their energy efficiency, lower their electric bills, and create a better environment for employees? Xcel Energy's bonus rebates help to off-set the upfront cost of lighting upgrades.

Check out the details:

25% bonus rebates on fixtures for prescriptive and new construction products

- Excludes linear tubes, controls, and exterior fixtures
- Includes mogul based and PL lamps
- Invoiced between April 15 and November 15
- Applications must be submitted by December 1

To learn more and get started, contact our trade relations manager, Jeff Kosak, at jeffery.p.kosak@xcelenergy.com or an Energy Advisor at 855-839-8862



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MISSION STATEMENT

The Association provides leadership in partnering between contractors, government employees and consumers to promote quality construction built safely, on time, on budget and at a fair price and profit. We provide a strong commitment to quality in education, communication, government relations and ethics.

Important Notice: The information in this newsletter is intended to alert you to changes in laws, regulations, or trends that can affect your business. The information in this newsletter is NOT tax, accounting, or legal advice. Since each company has different needs, it is important that you get the appropriate professional advice if you think your company will be affected. Please be sure to call us if you have any questions.

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ONE-STOP EFFICIENCY SHOP®

Bonus Rebates

for DLC and DLC Premium-listed fixtures

For a limited time, lighting projects including DLC and DLC Premium-listed fixtures and retrofit kits are eligible for an **additional 25% in rebates** when completed through the One-Stop Efficiency Shop.

Visit mncee.org/onestop to learn more about the One-Stop Efficiency Shop®, sponsored by Xcel Energy.

For projects to qualify, equipment must be purchased and installed between 4/15/2022 and 11/15/2022, and invoices must be submitted to the One-Stop team by 11/15/2022. Contact us at onestop@mncee.org with questions.

DSG TWO NEW METRO LOCATIONS!

Dakota Supply Group is opening two new locations to serve the HVAC, Plumbing, and Electrical needs in the Twin Cities



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