

ELECTRIFICATION INFRASTRUCTURE PART 1:

An Overview to Increasing Productivity through Strategic Layouts and Maintenance

Section 1 – Laying out the Infrastructure

When it comes to infrastructure, whether it be residential, commercial, or industrial, the layout of key systems including power, protection, energy management, and lighting plays a major role in determining overall productivity. It's important to understand how these elements should strategically be laid out to increase efficiency for the installer as well as to create an environment where those utilizing the space can operate at their most productive capacity. Additionally, it is important to understand common and hidden risks which can impact an electrical infrastructure's safety and productivity, which we aim to uncover in this educational series.

> FOR THE CONTRACTOR

Providing a comprehensive infrastructure solution allows electrical contractors to:

- Boost profits by highlighting the advantages of a fully integrated infrastructure to clients
 - Simplify the installation process, creating opportunities for cross-selling additional services and upgrades
 - Demonstrate expertise in designing and implementing smart, data-driven infrastructure
 - Understand and mitigate common and hidden risks for improved productivity
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Section 2 – Properly Maintaining as per Code

In addition to the layout of key systems, a critical aspect often overlooked is the maintenance of these systems. The loss of productivity resulting from proper maintenance can be substantial. This is where the National Fire Protection Association's (NFPA) 70B comes into play. The NFPA 70B, which became enforceable as a Standard in 2023, is known as the Standard for Electrical Equipment Maintenance. This standard details the preventive maintenance of electrical, electronic, and communication systems and equipment. By properly following the required maintenance intervals outlined in the NFPA 70B, contractors can ensure that all equipment remains operational and in good condition, contributing to improved Overall Equipment Effectiveness (OEE). Additionally, it can result in an increase of safety by eliminating potential hazards.

> FOR THE CONTRACTOR

The Electrical Contractor plays a critical role in ensuring effective electrical safety cycles.

Their unique position gives them visibility on both the practicality and necessity in implementing electrical safety cycles, making them a valued information source and advisor to facility management and construction teams. As a contractor, you can offer electrical maintenance as a part of your service offering and provide customers with guidance in the development of preventative maintenance plans, including the mitigation of risk.

Section 3 – How Leviton and Other Manufacturers Can Help

Leviton and other manufacturers play a key role in helping electrical contractors improve productivity through thoughtful design of their solutions. Designing products with the installer in mind can significantly streamline the installation process, reducing the likelihood of errors and delays during the construction phase. Extending beyond that, it can improve the maintenance process outlined in NFPA 70B, allowing for quick replacements and avoiding significant downtime during maintenance cycles.

> FOR THE CONTRACTOR

Product Spotlight:

Leviton’s Decora Edge and Lev-Lok Modular Wiring Solutions were designed with installation and replacement in mind.

- For residential applications, install Decora Edge products for fast installations, just push, click, done!
- For commercial applications, install Lev-Lok Modular Wiring for 3X faster installations and 5X faster swap outs than traditional wiring.

Leviton’s revolutionary load center features full plug-on breakers for easy installation and service. One side-by-side comparison showed Leviton’s solution can be up to 25% faster to install than a top competitor, saving significant installation time and headaches. Customers can choose which breakers they want to connect to the Internet and the My Leviton app for scheduling, remote control, and selection of essential circuits in case of grid power failure.



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POWER, PROTECTION,
ENERGY MANAGEMENT
& LIGHTING

Visit our website at:
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