

Professional Summary

A licensed Class A Master Electrician with over five years of dedicated experience in developing and delivering comprehensive electrical education. Proven expertise in curriculum design, National Electrical Code (NEC) instruction, and preparing students for state licensure examinations.

Education

IBEW 343 Apprenticeship

5-Year Indentured Electrical Apprenticeship (2013-2018)

Rochester, MN

Graduation Date: August 2018

Licensure

Class A Master

Minnesota Class A Master Electrician License

License Number: **AM762359**

Obtained: October 2019

Class A Journeyman

Minnesota Class A Journeyman Electrician License

License Number: **AJ745806**

Obtained: August 2018

Experience

Owner & Lead Instructor | Smarter Sparky | Austin, MN *May 2023 – Present*

- Develop and deliver a comprehensive 12-week Electrical Test Preparation course three times per year, preparing students for the Minnesota State Electrical exam.
- Instruct students on critical topics including advanced NEC navigation, conductor ampacity, conduit and box fill calculations, continuous and non-continuous load calculations, grounding and bonding, and complex calculations for motors, transformers, load calculations and more.
- Serve as a contracted online instructor for a private electrical apprenticeship program based in Arizona, adapting curriculum for a digital learning environment.
- Develop comprehensive online continuing education courses for ExpertCE, focusing on NEC standards and state-specific electrical codes.
- Provide specialized private tutoring for electrician license candidates across the United States.

Apprenticeship Instructor | South Central Minnesota Journeyman and Apprentice Training Committee (SCMNJATC) |

Rochester, MN *May 2020 – May 2023*

- Instructed 2nd, 3rd, and 5th-year electrical apprentices, designing and executing detailed lesson plans based on the NEC and foundational electrical principles.
- **5th Year Curriculum:** Focused on mastering NEC proficiency through practice exams, in-depth analysis of complex code questions and solutions, and detailed explanation of questions and their solutions.
- **3rd Year Curriculum:** Taught advanced concepts including grounding and bonding, pipe fill calculations, an introduction to motor theory and calculations, and delved further into the intricacies of The Code.
- **2nd Year Curriculum:** Introduced apprentices to AC theory and fundamental NEC structure, navigation, and application.
- Designed and executed lesson plans based on the NEC, as well as other electrical related topics
- Administered Continuing Education Unit (CEU) courses to electricians, ensuring compliance with state requirements.