

June 5, 2024, Meeting Announcement

Topic: NFPA 130 Wire and Cable Requirements

Sponsors: IEEE Vehicular Technology Society (VTS) Philadelphia Chapter

Speakers: Alex Marciano, Application Engineer, Marmon Industrial Energy & Infrastructure Group

Meeting date/time: Wednesday, June 5, 2024, 12:00 pm to 1:00 pm (Eastern Standard Time)

Location: *Virtual meeting* link posted on IEEE vTools prior to the meeting.

Cost of meeting: There is no charge for meeting attendance, only for PDH certificates.

Reservations: *Attendees are required to register at:* <https://events.vtools.ieee.org/m/419802>

A valid email address must be provided in order to receive the link for the meeting. If you have any questions, please contact Brandon Swartley at brandon.swartley@ieee.org.

Professional Development Hours: Attendees may apply for 1.0 PDH provided through the IEEE Certificates Program, accepted in all states. Send \$5.00 (USD) payment to Brandon Swartley via Zelle at brandon.swartley@ieee.org and complete online evaluation at <https://r2.ieee.org/philadelphia-vts/forms/> Evaluation form must be completed, and payment received within one week to receive PDH certificate.

Abstract: This presentation discusses the requirements given by NFPA 130 for wire and cable. The lecture will discuss non-emergency and emergency circuit requirements. Mr. Marciano will explain how cables are protected by following materials, installation, and testing requirements given by NFPA 130, NFPA 70, IEEE 1202, and UL 2196. A slide show summarizes the codes and standards, as well as showing photographs of cable testing and installation methods to meet requirements.

Agenda:

- Non-Emergency Circuits
 - Chapter 12 wiring requirement - non-emergency
 - FT4/IEEE1202 vertical flame and smoke release test
 - UL 1685 vertical flame and smoke release test
- Emergency Circuits
 - NFPA 130 wire requirements, design, reliability, emergency circuits, fire alarm and communication cables
NFPA 70 areas of assembly
 - UL 2196 fire resistive certification and FHIT listings and selection
 - What is a complete system? Known issues

Speaker:

Alexandre Marciano has over a decade of experience as a reliability and applications engineer in the oil and gas and electrical cable industries. He has a background in field engineering, account management, and business development. He holds a BSEE from University of Houston and was the Facilities Director Co-Chair of IEEE at University of Houston.

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