

NESC[®] Rules for Joint Use Construction

(Presented In-House at your Utility/Association or Presented as a Live Web Seminar)

Supply
Space

Communication Worker
Safety Zone

Communication
Space

Highlights

- Provides an overview of the joint use (power and communication) rules in each part of the NESC[®] (Day 2 exercises focus on looking up rules in the NESC[®] Codebook, so a copy of the Codebook is required.)
- Designed for:
 - Engineers
 - Staking Technicians
 - Power Lineworkers
 - Communication Lineworkers
 - Safety Personnel
 - Inspectors
- Rich in graphics and practical applications.

Conforms to the 2023 National Electrical Safety Code[®] (NESC[®])

About the Seminar

NESC Rules for Joint Use Construction is a 2-day class focusing on the National Electrical Safety Code (NESC) rules that apply to joint use construction (power and communication). This class provides a general overview of each part of the NESC and applying the Code to day-to-day work will be stressed by focusing on practical NESC examples and applications. During this 2-day class you will learn:

- Scope and Purpose of the Code
- Joint Use Overhead Line Rules
- Joint Use Underground Line Rules
- Joint Use Work Rules

Course Objectives

Upon successful completion of this course the learner will be able to:

1. Understand the organization, scope, purpose, and general application of the National Electrical Safety Code.
2. Apply the Code to common situations found on overhead and underground lines with joint use (power and communication) construction.
3. Recognize how the Code is integrated into design and construction standards and operating practices.
4. Identify and take action to correct Code violations and safety hazards related to joint use construction.
5. Design and build facilities that comply with Code requirements.
6. Understand the actions needed to work safely.
7. During the 2nd Day, interact with class attendees and understand how to independently find rules in the Codebook.
8. During the 2nd Day, participate in code discussions and apply the rules in the Codebook to actual field construction situations.

Who Should Attend

- Engineers
- Staking Technicians
- Power Lineworkers
- Communication Lineworkers
- Safety Personnel
- Inspectors

(Prior working knowledge of the NESC is not required)

Continuing Education Units

This course provides 1.2 Continuing Education Units (CEUs) or 12 Professional Development Hours (PDHs). This class has not been registered with and State Licensing or Education Board.

Class Format/ Learning Methods

- Presented in person or via the web
- Lecture format
- Real time Q & A
- Presentation slides rich in graphics and practical applications
- Ample time for questions and class discussion
- Exercises consisting of looking up Code Rules and applying the Rules to field construction

About the Instructor

David J. Marne, P.E., is a registered professional electrical engineer. Mr. Marne is the author of *McGraw-Hill's National Electrical Safety Code® (NESC®) 2023 Handbook* and is a nationally recognized speaker on the NESC.

He serves on NESC Subcommittee 4 Overhead Lines Clearances, Subcommittee 7 Underground Lines, and the Interpretations Subcommittee. He is company president and senior electrical engineer for Marne and Associates, Inc. in Bozeman, MT where he specializes in National Electrical Safety Code (NESC) training, OSHA training for power and communication workers, and expert witness services related to the NESC, the OSHA Standards for Power and Communication workers, and California's General Orders G095, G0128, and G0165.

Mr. Marne has over 35 years of experience in the utility industry engineering and managing transmission and distribution line projects, substation projects, electrical system planning studies, joint use (power and communication) projects, and providing training and expert witness services.



David J. Marne, P.E.

Class Schedule

Day 1

8:00 a.m.	Registration begins
8:30 a.m.	Welcome
8:45 a.m.	General Overview of NESC Joint Use Construction <ul style="list-style-type: none">• Identifying power and communications lines and equipment• Common power and communication terms• Introduction to the NESC• Definitions and references• Ground methods
10:15 a.m.	Break
10:30 a.m.	NESC Joint Use Overhead Clearance Rules <ul style="list-style-type: none">• Introduction to clearances• Joint use overhead clearances<ul style="list-style-type: none">• Clearance of structures• Clearance above ground
12 Noon	Lunch
1:00 p.m.	NESC Joint Use Overhead Clearance Rules <ul style="list-style-type: none">• Joint Use Overhead Clearances<ul style="list-style-type: none">• Clearance of power to communication at attachment and at midspan NESC Joint Use Overhead Strength Rules <ul style="list-style-type: none">• Pole strength issues• Joint Use strength requirements
2:30 p.m.	Break

OPTION:

This class can be presented as six 90-Minute Live Web Seminars (1.5-Day) or eight 90-Minute Live Web Seminars (2-Day)

Day 1 (Continued)

2:45 p.m.	NESC Joint Use Underground Rules <ul style="list-style-type: none">• Joint Use Underground Requirements<ul style="list-style-type: none">• Conduit systems• Direct buried systems NESC Joint Use Work Rules <ul style="list-style-type: none">• General overview of work rules• Power and communication employee work rules• Communication employee work rules on joint use poles Wrap Up <ul style="list-style-type: none">• Questions
4:15 p.m.	Adjourn

Day 2

8:30 a.m.	Welcome
8:45 a.m.	Q&A and Practical Applications <ul style="list-style-type: none">• Joint Use Overhead Lines
10:15 a.m.	Break
10:30 a.m.	Q&A and Practical Applications <ul style="list-style-type: none">• Joint Use Overhead Lines
12 Noon	Lunch
1:00 p.m.	Q&A and Practical Applications <ul style="list-style-type: none">• Joint Use Overhead Lines
2:30 p.m.	Break
2:45 p.m.	Q&A and Practical Applications <ul style="list-style-type: none">• Joint Use Underground Lines• Joint Use Work Rules
4:15 p.m.	Adjourn

Benefits of ikeGPS Training

- Save on travel time and out-of office expenses.
- Entire departments can be trained together.
- The presentation can be designed to meet the needs of your organization.
- Training schedule can be modified to meet your needs.

Enrollment/Pricing/Cancellation

- Please contact us for a quote to have this class presented as a live webinar or presented in person at your utility or association.
- Our live Webinar is typically economical on a per person basis when there are approximately 10 or more individuals to train.
- Our In-House presentation is typically economical on a per person basis when there are 15 or more individuals to train. For in-house training, the utility or association provides the conference room and any desired meals and beverages for the attendees.
- Class cancellations can be made by contacting ikeGPS at any time prior to the presentation date. No payment is due until the class is completed.

Contact



To schedule classes or for inquiries please reach out to us at:

training@ikegps.com

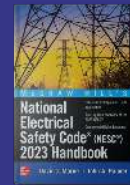
Class Materials

- Attendees will receive a pdf copy of the class presentation slides. The presentation materials are copyrighted by ikeGPS with permissions from McGraw Hill LLC. Class materials are reserved for class attendees only and may not be duplicated.
- For Day 1, attendees are encouraged (but not required) to bring a copy of the NESC Codebook and McGraw Hill's NESC Handbook. These books are available for purchase on Amazon.
- For Day 2 of the class, attendees are required to have a copy of the 2023 NESC Codebook for class exercises.
- These books are available for purchase on Amazon.



2023 NESC Codebook

[Purchase on Amazon](#)



McGraw Hill's NESC 2023 Handbook

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