

National Electrical Safety Code[®] (NESC[®]) Rules for Joint Use Construction

(Presented online or in-person at your organization)

Benefits of IKE's NESC[®] and OSHA training courses



Save time and money

Save on travel time and out-of-office expenses



Training together

Entire departments can be trained together



Designed for your needs

The presentation can be designed to meet the needs of your organization



Train on your schedule

Our training schedule can be modified to meet your team's needs

Class highlights

Gain understanding of the NESC rules

Provides an overview of the joint use (power and communication) rules in each part of the NESC. Including a Day 2 focus on understanding rules found in the NESC Codebook.

Learn through practical application

Curriculum focused on practical applications supported by examples, diagrams, and conversations.

Specifically designed classes

This class is designed for: Engineers, Staking Technicians, Power Lineworkers, Communication Lineworkers, Safety Personnel, and Inspectors.

Up to date information

This class conforms to the 2023 National Electrical Safety Code[®].

About the instructor



Grant D. Glaus, P.E.

NESC and OSHA Training Instructor, at ikeGPS

Grant Glaus is a registered professional electrical engineer with an impressive 25 years of experience in Electric Utility Engineering, NESC, and OSHA training, and is now leading IKE's training programs. Grant brings vast knowledge and extensive background, including his role on the NESC Subcommittee 5 for Overhead Lines – Strengths and Loadings, and 15 years of experience supervising and managing the engineering department at Columbia Rural Electric Association. Before that, Grant worked with David Marne for ten years, providing consulting and NESC and OSHA training services.

About the class

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

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.

Who should attend?

Attendees are not required to have prior working knowledge of the NESC. This class is designed for:

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

Class format and learning methods

This class is presented either in-person or online and includes:

- Real time Q&A
- Curriculum focused on practical applications supported by examples, diagrams, and conversations
- Ample time for questions and class discussion
- Exercises consisting of looking up Code Rules and applying the Rules to field construction

Class objectives

Upon successful completion of this class attendees will be able to:

01

Understand the organization, scope, purpose, and general application of the National Electrical Safety Code (NESC).

02

Apply the NESC to common situations found on overhead and underground lines with joint use (power and communication) construction.

03

Recognize how the Code is integrated into design and construction standards and operating practices.

04

Identify and take action to correct Code violations and safety hazards related to joint use construction.

05

Design and build facilities that comply with Code requirements.

06

Understand the actions needed to work safely.

07

During the 2nd Day, interact with class attendees and understand how to independently find rules in the Codebook.

08

During the 2nd day, participate in code discussions and apply the rules in the Codebook to actual field construction situations.

Provided 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.

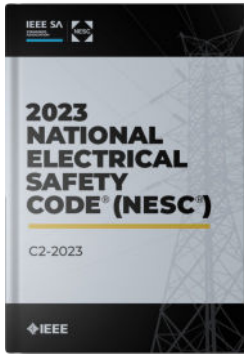


Class Schedule

Day 1 Agenda		Day 2 Agenda	
8:00 a.m.	Log in and set up	8:00 a.m.	Log in and set up
8:30 a.m.	Welcome and introduction	8:30 a.m.	Welcome and introduction
8:45 a.m.	General Overview of National Electrical Safety Code (NESC) for 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 	8:45 a.m.	Q&A and Practical Applications <ul style="list-style-type: none"> Joint Use Overhead Lines
10:15 a.m.	Break (15 min)	10:15 a.m.	Break (15 min)
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 	10:30 a.m.	Q&A and Practical Applications <ul style="list-style-type: none"> Joint Use Overhead Lines
12:00 p.m.	Lunch (1 hr)	12:00 p.m.	Lunch (1 hr)
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 	1:00 p.m.	Q&A and Practical Applications <ul style="list-style-type: none"> Joint Use Overhead Lines
2:30 p.m.	Break (15 min)	2:30 p.m.	Break (15 min)
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 	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	4:15 p.m.	Adjourn

External resources for your training

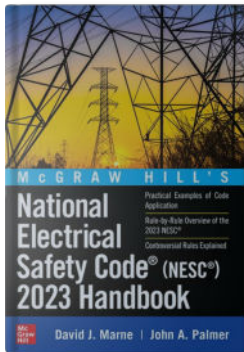
For Day 1, attendees are encouraged (but not required) to bring a copy of the NESC Codebook and McGraw Hill's NESC Handbook. For Day 2 of the class, attendees are **required** to have a copy of the 2023 NESC Codebook for class exercises.



2023 National Electrical Safety Code® (NESC®) C2-2023

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McGraw Hill's National Electrical Safety Code® 2023 (NESC®) Handbook

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