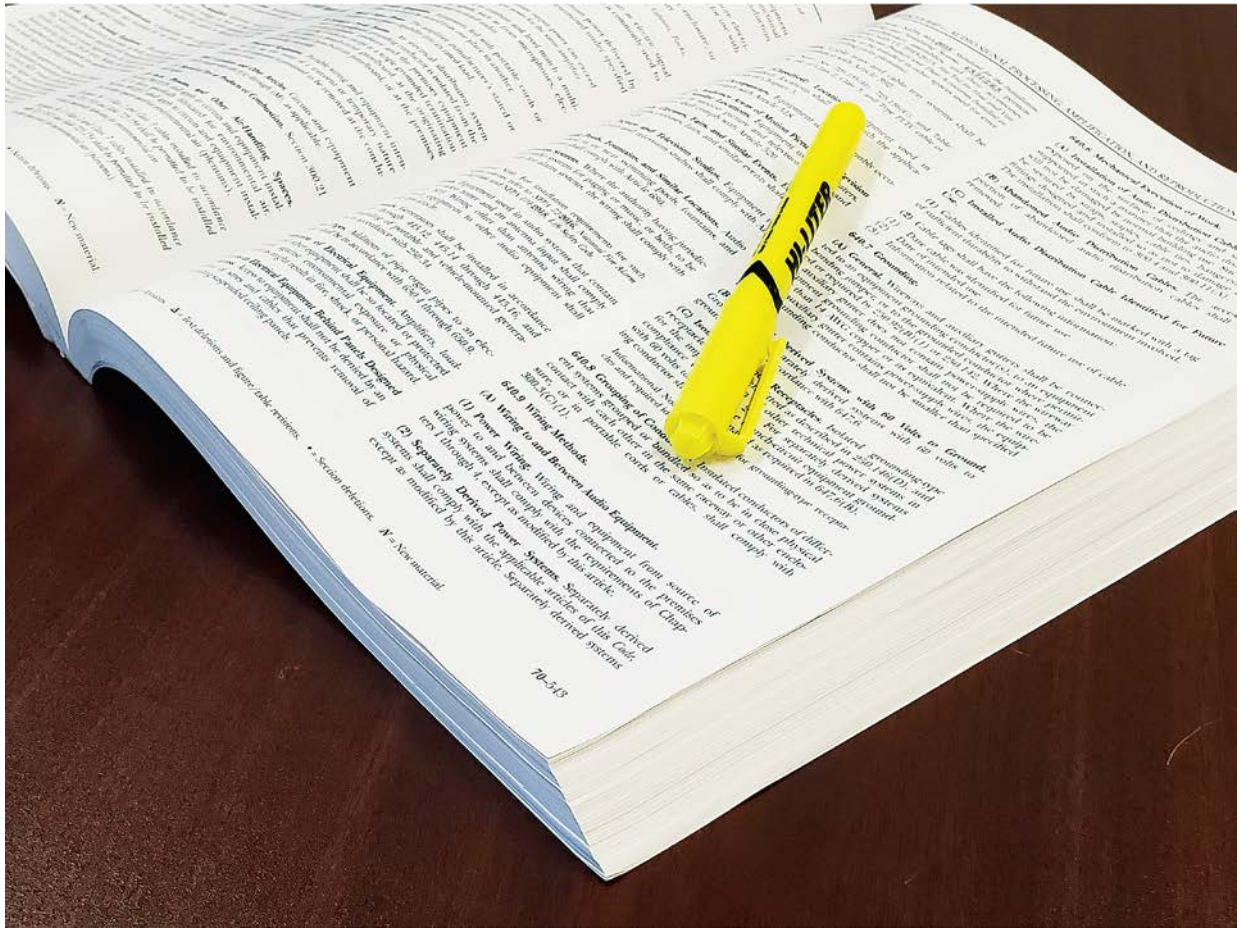
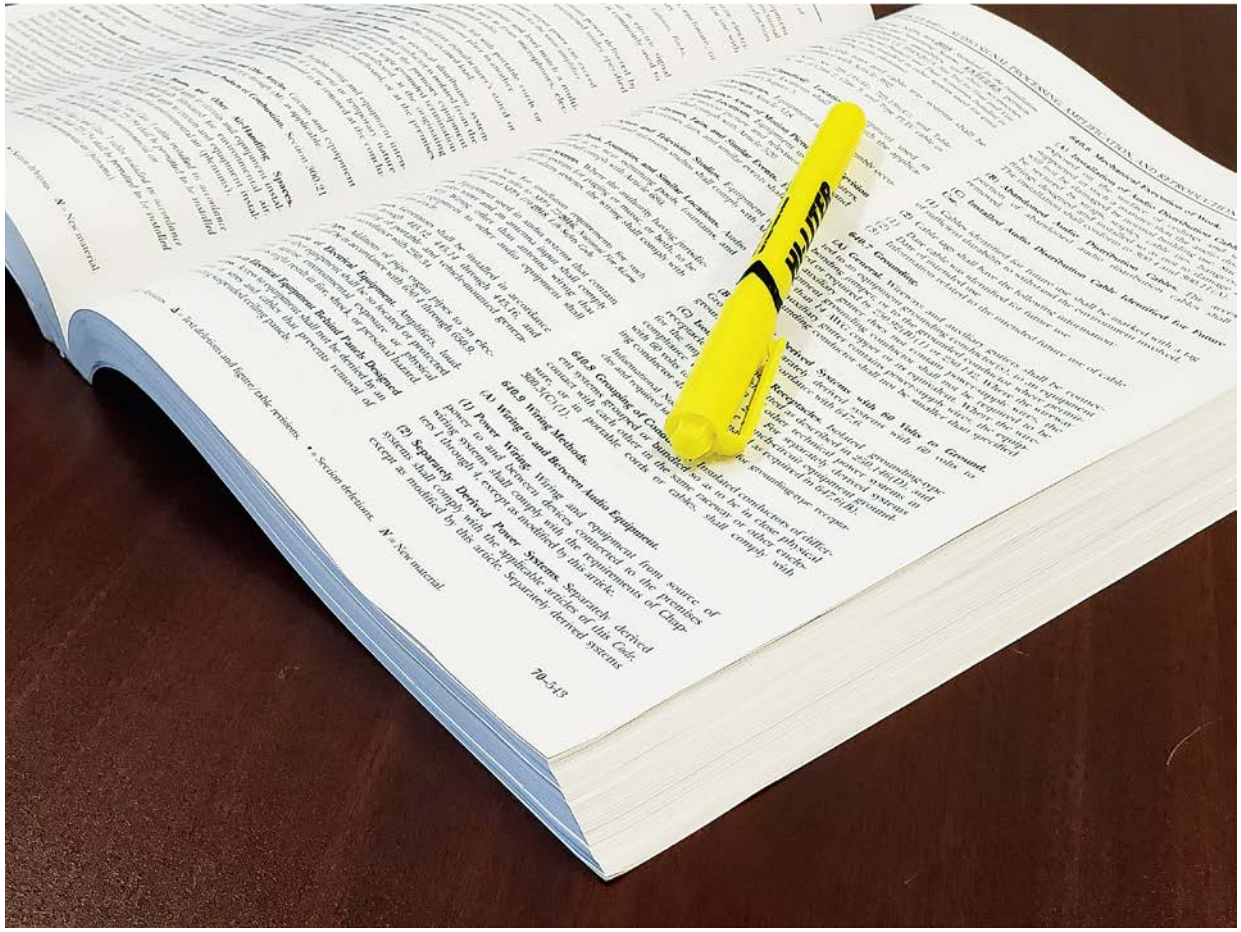
NCCER Module 26105-20



Introduction to the *National Electrical Code®*



Section One

Purpose and History of the NEC®

Objective

1. Explain the purpose and history of the *NEC*®.
   a. Identify key dates in the history of the *NEC*®.
   b. Describe how changes are made to the *NEC*®.
   c. Identify the other organizations that produce standards for the manufacture and use of electrical products.

Performance Tasks

There are no Performance Tasks associated with this section.

1.0.0 Purpose and History of the *NEC*® (1 of 2)

NOTE:

You need to acquire a copy of the most recent edition of the *NEC*® and keep it handy at all times. The more you know about the *NEC*®, the better an electrician you will become.

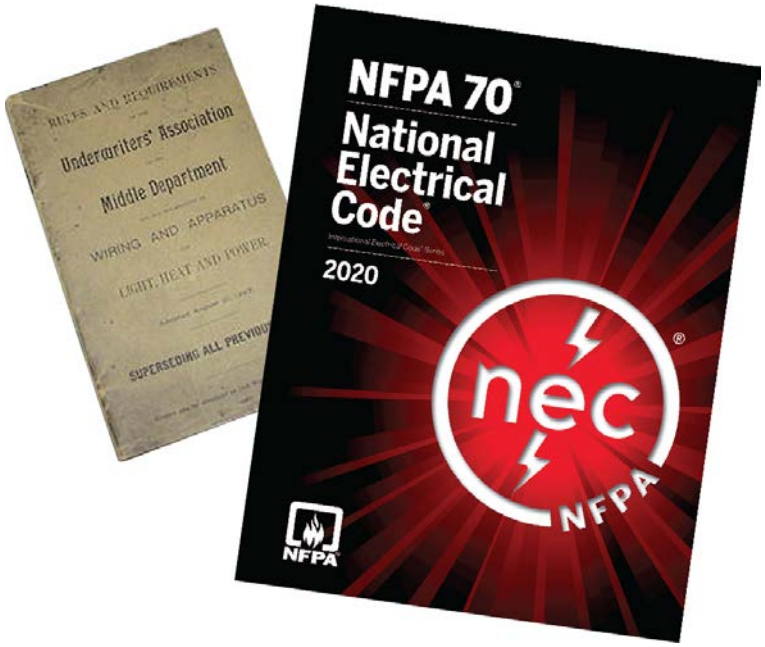
1.0.0 Think About It

The *NEC*®

Why do you think it's necessary to have a standard set of procedures for electrical installations? Find out who does the electrical inspection in your area. Who determines what will be inspected, when it will be inspected, and who will do the inspection?

1.0.0 Purpose and History of the *NEC*® (2 of 2)

- The *National Electrical Code*® (*NEC*®) provides the minimum safety precautions necessary to protect people and property from the hazards of electricity.
- The *NEC*® is developed by panels of experts who assess electrical installations and hazards and continually revise the standard to maximize safety.



1.1.0 Evolution of the NEC®

- The first nationally recommended electrical code was published by the National Board of Fire Underwriters (now the American Insurance Association) in 1895.
- In 1897, the first edition of the *NEC*® was published.
- In 1962, the NFPA took over publishing the *NEC*®.

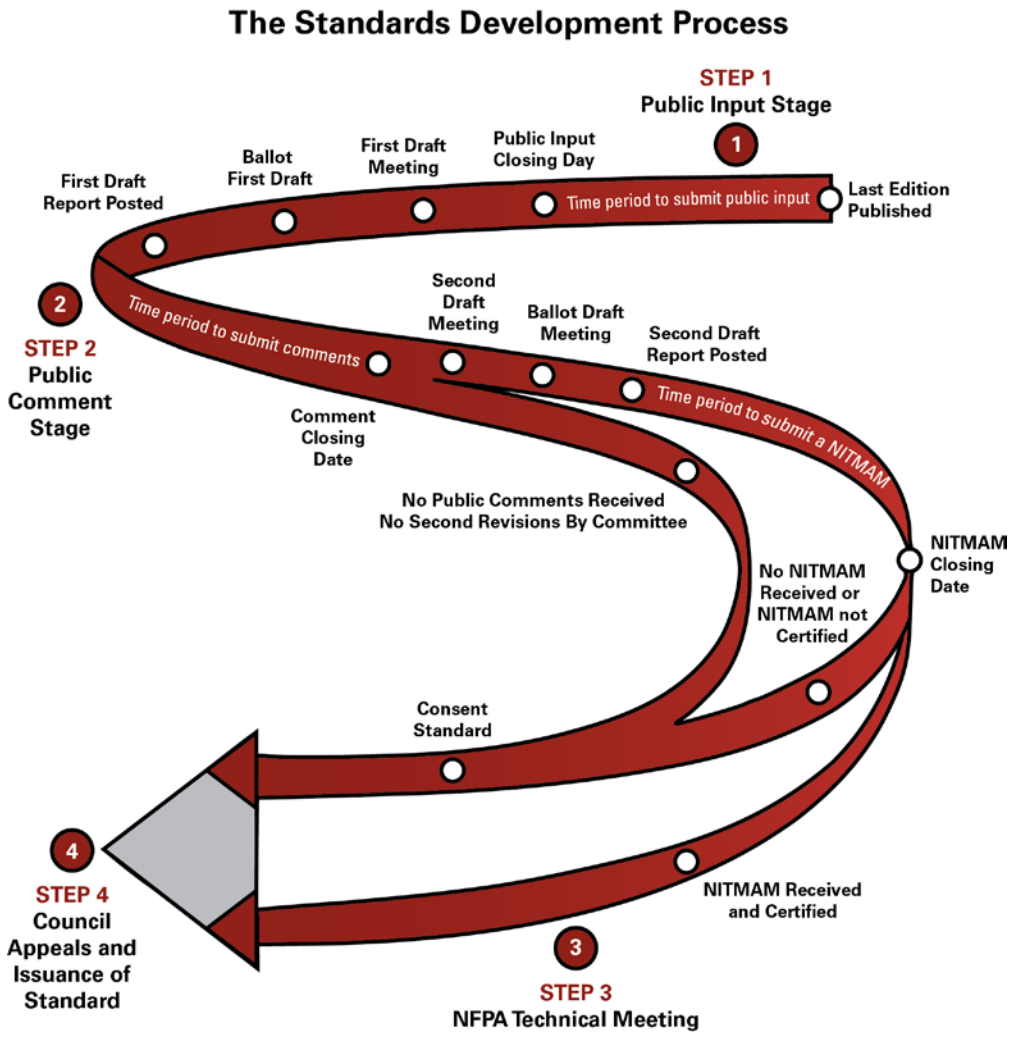
1.1.0 What's wrong with this picture?

Figure Credit: iStock@Veni vidi...shoot

Figure Credit: 123RF@Thanayu Jongwattanasilkul

Figure Credit: 123RF@Aleksandr Proshkin

1.2.0 *NEC*® Revision Process



1.3.0 – 1.3.3 Other Organizations and Laboratories

- Nationally Recognized Testing Laboratories (NRTLs)
- National Electrical Manufacturers Association (NEMA)
- International Electrotechnical Commission (IEC)
- Institute for Electrical and Electronics Engineers (IEEE)

Wrap Up – Trade Terms (1 of 2)

Articles: The articles are the main topics of the *NEC*®, beginning with ***NEC Article 90***, *Introduction*, and ending with ***NEC Article 840***, *Premises-Powered Broadband Communications Systems*.

Institute for Electrical and Electronics Engineers (IEEE): A professional organization that develops international standards impacting electronics, telecommunications, information technology, and power generation products and services.

International Electrotechnical Commission (IEC): An international organization that develops consensus standards for all electrical and electronic technologies.

Wrap Up – Trade Terms (2 of 2)

National Electrical Manufacturers Association (NEMA): The association that maintains and improves the quality and reliability of electrical products.

National Fire Protection Association (NFPA): The publisher of the *NEC*®. The NFPA develops codes and standards to minimize the possibility and effects of fire.

Nationally Recognized Testing Laboratories (NRTLs): Product safety certification laboratories that are responsible for testing and certifying electrical equipment.

Next…

Section 2.0.0
Navigating the *NEC*®

Read Sections 2.0.0 through 2.2.2 and complete the Section Review questions.