

For a schedule
of classes in your
area, call us @

1-877-978-7246

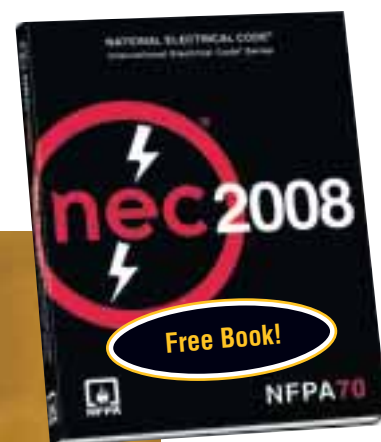
or visit

www.American
Trainco.com

The 2008 National Electrical Code®

INCLUDES:

- 2008 NEC® Code Book
- AMERICAN TRAINCO Seminar Manual
- MTAA Certification Testing
- 1.6 Continuing Education Units (16 hours)



▶ *"Best NEC seminar I have ever been
to. Thank You!"*

Max Baker – Electrician
MSD Columbia

National Electrical Code® and NEC® are Registered Trademarks of the National Fire Protection Association, Quincy Massachusetts 02269

- Learn How to Navigate the Code
- Find Out About the Many 2008 Changes
- Have Your Toughest Code Questions Answered
- GUARANTEED - Or Your Money Back

- This seminar can also be presented at your facility for larger groups
- Reserve Your Space Now! **CALL 1-877-97-TRAIN**
Or Online at www.AmericanTrainco.com

College Credit & Testing Available with this Course

This course now carries American Council on Education (ACE)
College Credit Recommendations.

▶ *"...interesting and lively..."*

Michael Campbell – Diagnostic Electrician
Phelps Dodge

▶ “...practical instruction and a great learning environment.”

Martin Shaw – Project Manager
Salt River Indian Comm.

▶ “...learned a ton!”

Gary Gustafson – Supervisor
Shamrock Foods

▶ “All questions were answered completely.”

Jack Howard – I/E Technician
Texmark Chemicals

The 2008 National Electrical Code®

PURPOSE OF TRAINING

Every three years the National Fire Protection Association (NFPA) updates the electrical industry's Bible – the National Electrical Code®. Included as a part of the American National Standards Institute (ANSI), the National Electrical Code® (NEC®) is more widely used than any other installation or construction code in the world. Its purpose is to provide anyone working with electricity the most up-to-date, best practices for safe installation and maintenance of electrical systems and equipment. The purpose of this training is to help electricians understand the new 2008 Code changes, while at the same time providing all non-electrical personnel with a practical introduction to the NEC®.

TRAINING OUTCOMES

Upon completion of this seminar, and by taking the optional practice licensing exam at the end of the second day, students attending this seminar will have demonstrated their ability to:

1. Navigate and find answers in the NEC®
2. Identify key electrical terms found in the Code
3. Locate specific information for their job regarding:
 - a. Electrical Installations
 - b. Wiring and Protection
 - c. Wiring Methods and Materials
 - d. Equipment for General Use; Motors, Transformers
4. Determine the applicability of the code rules found in each chapter of the NEC®
5. Locate specific information for their job regarding:
 - a. Special Occupancies
 - b. Special Equipment
 - c. Special Conditions
 - d. Communication Systems
6. Learn how to apply the tables found in chapter nine of the NEC® in solving typical electrical wiring and conduit problems.
7. Understand the most important 2008 Code changes.

▶ “...exceeded my expectations...”

Wayne Ziemann – Elec. Supervisor
Allied Tube & Conduit

TEACHING PHILOSOPHY

“Real World Training...for Real World Needs”, is not just our slogan, but also our mission statement. At American Trainco, we approach our students as if they were our own employees. We instruct and guide them in practical knowledge that allows them to immediately go back to their workplace and apply what they have learned. Our instructors are seasoned veterans with years of real world experience, and the students who attend our seminars often get more from a single week of training than an entire year of reading textbooks or watching videos. How do we know? They tell us.

Anyone can teach theory, but there simply is no substitution for experience. What sets American Trainco apart is our ability to communicate that experience to our students.

WHO SHOULD ATTEND

Whether an experienced Electrician or a Maintenance Technician without a formal electrical training background, you need to understand the many intricacies associated with the National Electrical Code®. Any experienced electrician will be the first to admit that learning the NEC® is a life-long experience. Don't miss this one of a kind seminar that explains how the National Electrical Code® requirements apply to the electrical work done in your plant or building! You should attend if you perform any of the following jobs:

- **Install and Maintain Electrical Equipment**
- **Maintain Plant or Building Lighting**
- **Install or Replace Motors**
- **Adjust Motor Overloads**
- **Replace Fuses**
- **Repair Motor Controls**
- **Install or Maintain HVAC Equipment**
- **Work on Plant or Building Generators**
- **Run Power to Newly Installed Equipment**
- **Troubleshoot Plant or Building Electrical Problems**
- **Manage or Supervise Maintenance Operations**

ABOUT OUR INSTRUCTORS

Trainer, author, curriculum developer and speaker on electrical maintenance and installation issues, **Randy Barnett** has over 30 years of “real world” electrical experience. He worked as an electrician in the Navy and a journeyman electrician for the railroad, utility, commercial and industrial construction industries before stumbling across his true passion of sharing his knowledge with others. Randy has personally trained thousands of trades persons in electrical installation and maintenance issues including the NEC®. He is the author of multiple books and articles, is a popular speaker, is an IAEI Certified Electrical Inspector and contributing member of the NFPA.

American Trainco has several other instructors with similar backgrounds who also teach this class. They are required to have a formal education *and* real world work experience. They need to be leaders in their field. We don't hire field people without teaching experience, and we don't hire teachers without field experience. They must have both. And since attendees critique the instructor at the end of each class, a positive and enjoyable learning experience is virtually guaranteed.

CERTIFICATES-TESTING-COLLEGE CREDIT

After completion of this seminar students will receive a Certificate of Completion and 1.6 CEUs (Continuing Education Units) approved by the Maintenance Training Association of the Americas. Students may also elect to take the MTAA Certification test associated with this topic. Those seeking college credit recommendations must attend both days of this course and successfully pass the MTAA Certification test. This course is recommended by ACE for 1 college credit hour. Transcripts are available through American Trainco.

C O U R S E O V E R V I E W

Properly installed and maintained electrical systems are a crucial part of day-to-day operations for any building, plant or piece of equipment. The NEC® will facilitate you in that objective when you have a thorough understanding of the Code, and most importantly, how it is applied to your specific site or facility.

To ensure you get the most from this course, students will be asked about specific topics or situations they need addressed at the beginning of the seminar. Our instructor will then make sure each specific question gets answered. So if you don't see the specific subject matter you are interested in below, don't worry. More than just making a presentation, at American Trainco our job is to provide *real world* training, which means answering your *real world* questions. Simply let us know what you need to learn and we'll make sure you get the answers.

DISCUSSION TOPICS

Introduction to the National Electrical Code®

NEC® layout as the first step in successful navigation

Differences between the first four chapters and chapters five through nine

How to quickly put yourself in the right chapter of the Code

Finding specific information in Chapter 1 General:

Key words and definitions you must know
Installation requirements topics

Finding specific information in Chapter 2

Wiring and Protection, on:

Use and Identification of Grounded Conductors
Branch Circuits
Feeders
Branch-Circuit, Feeder and Service Calculations
Outside Branch Circuits and Feeders
Services
Overcurrent Protection
Grounding
Transient Voltage Surge Suppressors

Finding specific information in Chapter 3

Wiring Methods and Materials, on:

Wiring Methods
Conductors for General Wiring

Cabinets, Cutout Boxes, Meter Socket Enclosures
Outlet, Device, Pull, and Junction Boxes;
Conduit Bodies; Fittings; and Manholes
Armored Cable: Type AC
Nonmetallic-Sheathed Cable: Types NM, NMC
and NMS
Flexible Metal Conduit: Type FMC
Liquidtight Flexible Metal Conduit: Type LFMC
Rigid Nonmetallic Conduit: Type RNC
Liquidtight Flexible Nonmetallic Conduit: Type LFNC
Electrical Nonmetallic Tubing: Type ENT
Auxiliary Gutters
Busways
Cablebus
Metal Wireways
Surface Metal Raceways
Surface Nonmetallic Raceways
Cable Trays

Finding specific information in Chapter 4: Equipment for General Use, on:

Flexible Cords and Cables
Fixture Wires
Switches
Receptacles, Cord Connectors, and Attachment Caps
Switchboards and Panelboards
Luminaries, Lampholders, Lamps
Appliances
Fixed Electric Space-Heating Equipment
Motors, Motor Circuits, and Controllers, including
Disconnecting Means for Motors
Air Conditioning and Refrigeration Equipment
Transformers and Transformer Vaults
Equipment over 600 Volts, Nominal

Finding specific information in Chapters 5 through 8, on:

The interrelationships between the first four chapters and these chapters
Special Occupancies
Special Equipment
Special Conditions
Communication Systems

Finding specific answers from tables in Chapter 9

How to Quickly Use Ready Information



SEMINAR AGENDA:

7:30am	Registration
8:00am	Class Begins
12:00-12:50pm	Lunch (on your own)
4:30pm	Class Ends
On Your Own	MTAA Testing

SEMINAR FEE: \$985 Both Days

NO RISK REGISTRATION and MONEY-BACK GUARANTEE

If you're not yet sure you'll be able to attend this seminar, you can still make a reservation to hold your space in class. While payment is due prior to the start of the seminar, you may choose a full refund or credit for cancellations made at least 24 hours in advance. Student substitutions can also be freely made at any time prior to the start of the seminar. Refunds will not be issued for registered attendees who fail to show up and have not given a notice of cancellation. In the rare event that you do not receive the expected value after attending our seminar, simply notify us in writing of your reasons and your money will be promptly refunded.

IN-HOUSE TRAINING

You can bring this or any other maintenance training program directly to your facility. Simply give us a call, tell us what you're looking for, and we'll provide you a quote. We also provide custom training for courses not listed in this brochure.

Contact **Dan or David** at **1-877-97-TRAIN**, email **DavidH@AmericanTrainco.com**, or visit us on the web at **www.AmericanTrainco.com**.

Some of the other training topics we can bring to your site include:

- **Basic Electricity for the Non-Electrician™**
- **Electrical Troubleshooting**
- **Air Conditioning & Refrigeration**
- **Boiler Operation, Maintenance & Safety™**
- **Arc Flash Protection & Electrical Safety™**
- **2008 National Electrical Code®**

And 20+ other courses in the following areas:

- **Electrical / Electrical Controls**
- **HVACR**
- **Mechanical**
- **Facility & Plant Management**
- **Fluid Power**
- **Pumps / Piping**
- **Codes / Standards / Safety**

Reserve Your Space Now!

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SEMINAR FEE
\$985 Both Days



“Didn't know how much has changed in the last 20 years.”

Jerry Morton Maintenance
General Dynamics

FIVE EASY WAYS TO REGISTER:

- 1) **Internet** www.AmericanTrainco.com
- 2) **Fax** (303) 531-4565
- 3) **Phone** Toll Free 1-877-97-TRAIN 1-877-978-7246 or (303) 531-4560
- 4) **Mail** this form to: American Trainco, Inc. P.O. Box 3397 Englewood, CO 80155
- 5) **E-mail** the information requested on this form to: sales@AmericanTrainco.com

Primary Contact/Authorizing Supervisor: Name

Title _____ Company Name _____

Address _____

City _____ Zip _____

Phone _____ Fax _____ Email _____

Payment Method:

- Visa
- MasterCard
- Discover
- American Express

Card Number: _____

Expiration Date: _____

Name on Card: _____

Signature: _____

Check Enclosed (Make payable to: American Trainco, Inc.) Bill Purchase Order #:

Seminar Attendees:

Name	Title	E-Mail	Seminar City

Billing Information: (Please fill out this section only if the "Bill To" name and address is different than the Primary Contact above.)

Individual's Name _____ Title _____ Company Name _____

Address _____ City _____ State _____ Zip _____

Phone _____ Fax _____ Email _____

2008 National Electrical Code® Books

FREE SHIPPING

Although you will receive a free National Electrical Code® book when attending this seminar, additional copies are available from American Trainco for only \$86.00. To order, simply write in the quantity below, and fill out the Billing Information and Payment Method above.

Order Quantity _____ National Electrical Code® book: x \$86.00

(Colorado Residents Add 2.9% Tax, Canadian Residents Add 6% GST)



PO Box 3397
Englewood, CO 80155



PROMOTION CODE

X05

To purchase, fill in your order quantity above, complete the Billing Information and Payment Method sections on this form, and send to American Trainco. Product shipment and invoicing is fulfilled by Martin Learning, a Division of American Trainco.