

Madison Area Electrical JATC Educational Course Offerings

January 2017 Edition

Revised
01/11/2017

The Madison Area Electrical Joint Apprenticeship and Training Committee (JATC) is pleased to offer the following courses to all participants of the Madison Area Electrical JATT. For registration or questions, please contact the Apprenticeship and Training Office at 608.221.3321.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Please contact the Apprenticeship and Training office at 608.221.3321 to register for any of the below listed courses. There are no course fees for classes offered at the IBEW Local 159 Training Center. For more course details, including a brief course description, please see the following pages.

DATE	COURSE	DAY & TIME	LOCATION
01/23/2017	Grounding and Bonding Terminology Instructor – Matthew Wilkinson Course Number: 1357	Monday 4:30-8:30 pm	Local 159 Training Center 4 hrs. – 4 CEU
01/28/2017	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1439	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
02/06/2017 – 03/06/2017	NFPA 70E (Elec. Safety Related Wrk. Pract.) Instructor – Matthew Wilkinson Course Number: 1356	Mondays 4:30-7:45 pm	Local 159 Training Center 16 hrs. – 16 CEU
02/07/2017	Introduction to Electric Benders (881 & 555) Instructor – B Kessler, Greenlee Tool Specialist Course Number: 1445	Tuesday 5:00-8:00 pm	Local 159 Training Center 3 hrs. – 3 CEU
02/18/2017	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1440	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
02/21/2017 – 03/15/2017	OSHA-30 Instructor – Crabb/Noel Course Number: 1312	Tues. – Wed. 5:00 - 9:00 pm	Local 159 Training Center 32 hrs. – 32 CEU
02/25/2017	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1441	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/11/2017	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1442	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/18/2017	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1443	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/25/2017	Significant Changes to the 2017 NEC Instructors –Kroth/Freespirit/Wagner Course Number: 1354	Saturday 7:00 a–3:30 pm	Local 159 Training Center 8 hrs. – 8 CEU
04/01/2017	Data Cabling 101 Instructor – Brian Russ Course Number: 1081	Saturday 8:00a - noon	Local 159 Training Center 4 hrs. – CEU Pending
04/08/2017	Significant Changes to the 2017 NEC Instructors –Kroth/Freespirit/Wagner Course Number: 1355	Saturday 7:00 a–3:30 pm	Local 159 Training Center 8 hrs. – 8 CEU
Spring 2017 Date Pending	Article 517 - Health Care Facilities Instructor – Ed Kroth Course Number: 1358	OPEN 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
Date Pending	First Aid/CPR Instructors – Jeremy Crabb/Anne Swartz Course Number: 1444	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
Date Pending	3M Medium Voltage Cable Splicing Instructor – J Crimmings, 3M Acct. Rep. Course Number: 1446	Open 5:00 - 8:30 pm	Local 159 Training Center 3.5 hrs. – 3.5 CEU
Date Pending	3M Firestopping Instructor – J Crimmings, 3M Acct. Rep. Course Number: 1447	Open 5:00 – 7:00 pm	Local 159 Training Center 2 hrs. – 1.5 CEU
Date Pending	Conductor Installation Instructor – Bill Neitzel Course Number: 1448	Open 4:30 – 7:30pm	Local 159 Training Center 3 hrs. – 3 CEU
Date Pending	Common Code Calculations Instructor – Bill Neitzel Course Number: 1449	Open 4:30 – 7:30pm	Local 159 Training Center 3 hrs. – 3 CEU
Date Pending	Emergency – LR - Generators Instructor – Bill Neitzel Course Number: 1450	Open 4:30 – 7:30pm	Local 159 Training Center 3 hrs. – 3 CEU
Date Pending	Photovoltaics Instructor – Bill Neitzel Course Number: 1451	Open 4:30 – 7:30pm	Local 159 Training Center 3 hrs. – 3 CEU

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Contact the Apprenticeship and Training Office at 608.221.3321 to register for any of the below listed courses.

Grounding and Bonding Terminology

INSTRUCTOR: Matthew Wilkinson DATE: Monday, January 23, 2017 TOTAL HRS: 4 hrs. (1 class session) LOCATION: Local 159 Training Center CLASS MIN: 10 CLASS MAX: 24	COURSE #: 1357 FEE: None TIME: 4:30p – 8:30p # OF CEU: 4 CEUs ROOM: Classroom A # ENROLLED: 7
---	--

During this course students will learn the definition of common grounding terms and how they apply to the Codeology method to identify the correct section of NEC Article 250. Students will identify the steps to determine the minimum size of the Equipment Grounding Conductor (EGC) for a given load, identify the steps to determine the minimum size of the Grounding Electrode Conductor (GEC) for a given system, and also learn to identify common grounding/bonding parts.

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz DATE: Saturday, January 28, 2016 TOTAL HRS: 8 hrs. (1 class session) LOCATION: Local 159 Training Center CLASS MIN: 10 CLASS MAX: 22	COURSE #: 1439 FEE: None TIME: 7:30a – 4:00p # OF CEU: 8 CEU ROOM: Classroom B # ENROLLED: ?
--	---

Heartsaver® First Aid CPR AED is a classroom, video-based, instructor-led course that teaches students critical skills needed to respond to and manage a first aid, choking or sudden cardiac arrest emergency in the first few minutes until emergency medical services (EMS) arrives. Students learn skills such as how to treat bleeding, sprains, broken bones, shock and other first aid emergencies. This course also teaches adult CPR and AED use. Completers will receive American Heart Association First Aid/CPR/AED certifications that are valid for two years.

NFPA 70E (Electrical Safety Related Work Practices)

INSTRUCTOR: Matthew Wilkinson DATE: Start: Monday, February 6, 2017 End: Monday, March 6, 2017 TOTAL HRS: 16 hrs. (4 class session) LOCATION: Local 159 Training Center CLASS MIN: 10 CLASS MAX: 24	COURSE #: 1356 FEE: None TIME: 4:30p – 7:30p (First Night) (Remaining Nights) 4:30p – 7:45p # OF CEU: 16 CEUs ROOM: Classroom A # ENROLLED: 5
---	---

During this course students will be presented with background information for electrical safety in the workplace training. Topics to be covered include definitions, terminology, training requirements for on the job applications, and introduction to procedures on how to recognize and avoid electrical hazards in the workplace. Please note that this is an introductory awareness course only, and provides no certification. Students are still required to receive additional training from their employer on how to recognize and avoid the specific electrical hazards they may encounter on the job.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Introduction to Electric Benders (881 & 555)

INSTRUCTOR: Brian Kessler (Greenlee Tools)
 DATE: Tuesday, February 7, 2017
 TOTAL HRS: 3 hrs. (1 class session)
 LOCATION: Local 159 Training Center
 CLASS MIN: 8
 CLASS MAX: 16

COURSE #: 1445
FEE: None
TIME: 5:00p – 8:00p
OF CEU: 3 CEU
ROOM: Lab
ENROLLED: 0

During this course students will be shown the proper procedure for use of an electric bender. Greenlee will be bringing their custom promotional truck and trailer fully stocked with various equipment sold under the Greenlee name. Some equipment expected to be showcased may include their new 854 Bender and Cable Tray Wire Puller. Instructors will be using the 881 & 555 Bender to demonstrate the proper way to use an Electric Bender safely, effectively, and efficiently.

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz
 DATE: Saturday, February 18, 2017
 TOTAL HRS: 8 hrs. (1 class session)
 LOCATION: Local 159 Training Center
 CLASS MIN: 10
 CLASS MAX: 22

COURSE #: 1440
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom B
ENROLLED: ?

See prior course description.

OSHA 30 Section B

INSTRUCTOR: Jeremy Crabb/Jerry Noel
 DATE: Start: Tuesday, February 21, 2017
 End: Wednesday, March 15, 2017
 Course meets twice weekly on Tuesday and Wednesday
 TOTAL HRS: 32 hrs. (8 class sessions)
 LOCATION: Local 159 Training Center
 CLASS MIN: 10
 CLASS MAX: 40

COURSE #: 1312
FEE: None
TIME: 5:00p – 9:00p
OF CEU: 32 CEU
ROOM: Classroom A
ENROLLED: 22

The OSHA 30-hour Construction Industry Outreach Training course is a comprehensive safety program designed for anyone involved in the construction industry. Upon successful completion of the course, participants will receive an OSHA 30-Hour Construction Outreach DOL course completion card.

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz
 DATE: Saturday, February 25, 2017
 TOTAL HRS: 8 hrs. (1 class session)
 LOCATION: Local 159 Training Center
 CLASS MIN: 10
 CLASS MAX: 22

COURSE #: 1441
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom B
ENROLLED: ?

See prior course description.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz
DATE: Saturday, March 11, 2017
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 22

COURSE #: 1442
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom B
ENROLLED: ?

See prior course description.

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz
DATE: Saturday, March 18, 2017
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 22

COURSE #: 1443
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom B
ENROLLED: ?

See prior course description.

Significant Changes to the 2014 NEC

INSTRUCTOR: E Kroth/M Freespirit/M Wagner
DATE: Saturday, March 25 2017
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 12
CLASS MAX: 60

COURSE #: 1354
FEE: None
TIME: 7:00a – 3:30p
OF CEU: 8 CEU
ROOM: Classroom A & B
ENROLLED: 17

The National Electrical Code (NEC) is the most widely recognized and accepted electrical standard in the world. Every three years the NEC is updated to reflect the newest installation practices utilized by the electrical industry. The Significant Changes to the 2017 NEC class is an invaluable resource for electricians, focusing on the most important changes that occurred between the 2014 and 2017 NEC. To assist and enhance your understanding of each revision, the class is arranged to follow the general layout of the NEC and each change is accompanied by helpful images or illustrations. In addition, background information and a discussion on the significance of the change will accompany the majority of the revisions. The comprehensive coverage offered in this class will enable attendees to gain a solid understanding and application of the requirements contained in the 2017 NEC. There is a book fee if you would like to purchase the textbook.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Data Cabling 101

INSTRUCTOR: Brian Russ
DATE: Saturday, April 1, 2017
TOTAL HRS: 4 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 20

COURSE #: 1081
FEE: None
TIME: 8:00a – 12:00 p
OF CEU: 4 CEU
ROOM: Lab
ENROLLED: 7

The course will focus on hands-on activities with terminating telecommunication products, testing, labeling, while discussing proper installation guidelines, and best practices to follow during the installation and maintenance of data networking equipment and materials. The course will demonstrate the importance of conducting field assessments and applying industry standards. This will be demonstrated in conjunction with the requirements that are outlined in the respective installation guides provided with the networking equipment and materials.

Significant Changes to the 2014 NEC

INSTRUCTOR: E Kroth/M Freespirit/M Wagner
DATE: Saturday, April 8, 2017
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 12
CLASS MAX: 60

COURSE #: 1355
FEE: None
TIME: 7:00a – 3:30p
OF CEU: 8 CEU
ROOM: Classroom A & B
ENROLLED: 1

See prior course description.

Courses with Active Waiting Lists (waiting for dates):

National Electrical Code (NEC) Article 517 (Health Care Facilities) COURSE #: 1358

INSTRUCTOR: Ed Kroth
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEU
ROOM: Classroom A
ENROLLED: 2

During this course students will be presented with an overview of Article 517 (Health Care Facilities) as found in the 2011 National Electrical Code (NEC) and as amended by SPS 316. Students will discuss other related articles of the NEC with periodic references from: NFPA 99, Standards for Health Care Facilities, and NFPA 101 (Life Safety Code). The course content emphasis will be hospital facilities.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Courses with Active Waiting Lists (waiting for dates) continued:

First Aid/CPR

INSTRUCTOR: Jeremy Crabb/Anne Swartz
DATE: Saturday, TBD; Spring 2017
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 20

COURSE #: 1444
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom B
ENROLLED: ?

See prior course description.

3M Medium Voltage Cable Splicing

INSTRUCTOR: J Crimmings (3M)
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3.5 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 20

COURSE #: 1446
FEE: None
TIME: 5:00p – 8:30p
OF CEU: 3.5 CEU
ROOM: Classroom A
ENROLLED: 0

Course description coming soon.

3M Firestopping

INSTRUCTOR: J Crimmings (3M)
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 2 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 20

COURSE #: 1347
FEE: None
TIME: 5:00p – 7:00p
OF CEU: 1.5 CEU
ROOM: Classroom A
ENROLLED: 0

Course description coming soon.

Conductor Installations

INSTRUCTOR: Bill Neitzel
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

COURSE #: 1448
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEUs
ROOM: Classroom A
ENROLLED: 0

Course description coming soon.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Common Code Calculations

INSTRUCTOR: Bill Neitzel
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

COURSE #: 1449
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEUs
ROOM: Classroom A
ENROLLED: 0

This course will cover calculations that pertain to the NEC. Areas that will be covered are box fill, pull and junction box sizing, sizing grounded and equipment grounding conductors, conduit and wire way fill, ampacity adjustments, cable tray installations and feeder sizing requirements. Attendees will problem solve relative examples to become familiar with doing calculations for the various Code sections listed above.

Emergency – LR – Generators

INSTRUCTOR: Bill Neitzel
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

COURSE #: 1450
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEUs
ROOM: Classroom A
ENROLLED: 0

Course description coming soon.

Photovoltaics

INSTRUCTOR: Bill Neitzel
DATE: To Be Determined (TBD) Spring 2017
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

COURSE #: 1451
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEUs
ROOM: Classroom A
ENROLLED: 0

Course description coming soon.

Madison Area Electrical Joint Apprenticeship and Training Committee

2016 FALL CONTINUING EDUCATION COURSE OFFERINGS

Class Registration

To register, call the Apprenticeship and Training Office at (608) 221-3321

1. Registration deadline is 2 weeks prior to the class start. This allows ample time to order and receive textbooks and workbooks prior to the start of class.
 - a. Pre-registration for all course offerings is required.
 - b. Please note that all courses have a minimum enrollment number for the course to commence. As a result, all course schedules are subject to change and/or cancelation.
2. The Madison Area Electrical Joint Apprenticeship and Training Trust Committee will provide Continuing Education courses at IBEW Local 159's Training Center with no tuition cost for members in all classifications.
 - a. Effective July 28, 2015, the Madison Area Electrical Joint Apprenticeship and Training Trust has ended their Course Tuition Reimbursement Policy for all classifications except Inside (Construction) Apprentices, and Voice, Data, Video Apprentices.
3. The training trust fund will provide the necessary textbooks for use in the courses. The textbooks are to be returned at the completion of the course. The textbooks are available for purchase upon request.
 - a. Attendees that fail to return or provide payment for the textbooks will be prohibited from registering for future classes until the matter is resolved.
 - b. Attendees that wish to purchase the course materials must do so before retaining possession of the materials. (No billing; must be paid in full with check or money order prior to the conclusion of the course).
4. UPON DEMAND classes all maintain an active waiting list of members that are interested in taking the course. When enough names are on the waiting list, a firm start date will be set and the Class Schedule will be updated.
 - a. Please contact the Apprenticeship and Training Office to have your name placed on the waiting list for a specific course.

The Madison Area Electrical Joint Apprenticeship and Training Trust (JATT) Education Sub – Committee is actively seeking individuals who are willing to become involved in strengthening the IBEW-NECA educational team. If you have an interest in teaching or assisting with a course, please feel free to contact any Education Sub – Committee member or the Apprenticeship and Training Office. There are many opportunities available and training is provided. Applications are available at the Apprenticeship and Training Office.

The Madison Area Electrical Joint Apprenticeship and Training Committee (JATC), IBEW Local 159, and Madison Area Electrical Joint Apprenticeship and Training Trust (JATT) Education Sub – Committee are requesting feedback in regards to possible future course offerings.

Please contact the Apprenticeship and Training Office or any Madison Area Electrical Joint Apprenticeship and Training Trust (JATT) Education Sub – Committee member comments about any courses that you have attended.