

Madison Area Electrical JATC Educational Course Offerings

March 2018 Edition

Revised
02/23/2018

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

2017 – 2018 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
02/27/2018 – 03/06/2018	OSHA-10 Instructor – Crabb Course Number: 1648	Tues. – Wed. 4:30 – 8:30 pm	Local 159 Training Center 12 hrs. – 10 CEU
02/27/2018	Common Code Calculations Instructor – Bill Neitzel Course Number: 1735	Tuesday 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
03/03/2018	First Aid/CPR Course Number: 1639 Instructors – Crabb/Swartz/Schleicher	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/07/2018 – 04/25/2018	OSHA-30 (Section C) Instructor – Crabb Course Number: 1769	Wednesdays 4:30 – 8:30 pm	Local 159 Training Center 32 hrs. – 32 CEU
03/12/2018	Arc-Fault/Short Circuit/Selective Coordination Instructor – Bill Neitzel Course Number: 1736	Monday 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
03/17/2018	Significant Changes to the 2017 NEC Instructors – Kroth/Freespirit/Wagner Course Number: 1651	Saturday 7:00 a-3:30 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/24/2018	First Aid/CPR Course Number: 1640 Instructors – Crabb/Swartz/Schleicher	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
03/24/2018	Intro to Elec. Safety Related Wrk. Pract. (NFPA 70E) Instructor – Matthew Wilkinson Course Number: 1785	Saturday 7:30 a -2:00 pm	Local 159 Training Center 6 hrs. – 6 CEU
03/28/2018	Data Cabling 101 Instructor – Brian Russ Course Number: 1680	Wednesday 4:30 – 8:30 pm	Local 159 Training Center 4 hrs. – 4 CEU
04/02/2018	Residential Requirements Part 1 Instructor – Bill Neitzel Course Number: 1737	Monday 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
04/07/2018	First Aid/CPR Course Number: 1641 Instructors – Crabb/Swartz/Schleicher	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
04/09/2018	Residential Requirements Part 2 Instructor – Bill Neitzel Course Number: 1738	Monday 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
04/14/2018	Conduit-Bending Basics Course Number: 1811 Instructors – Sam Everly/Jeremy Crabb	Saturday 7:30 a -4:00 pm	Local 159 Training Center 8 hrs. – 8 CEU
04/16/2018 – 06/04/2018	Electrician Exam Prep (Section B) (Skip 05/28) Instructor – Ed Kroth Course Number: 1670	Mondays 4:30-7:30 pm	Local 159 Training Center 21 hrs. – 18 CEU
05/08/2018	Fiber Optic Cable Splicing Instructor – Brian Russ Course Number: 1810	Tuesday 4:30 – 8:30 pm	Local 159 Training Center 4 hrs. – 0 CEU
05/15/2018	Firestopping Requirements Instructor – Bill Neitzel Course Number: 1739	Tuesday 4:30-7:30 pm	Local 159 Training Center 3 hrs. – 3 CEU
Upon Demand	Introduction to the Greenlee 555 Electric Bender Instructor – Kevin Klepper Course Number 1652	OPEN 5:00 – 8:00 pm	Local 159 Training Center 3 hrs. – 3 CEU
Upon Demand	90° Bends with Greenlee 555 Electric Bender Instructor – Kevin Klepper Course Number 1653	OPEN 5:00 – 8:00 pm	Local 159 Training Center 3 hrs. – 3 CEU
Upon Demand	Offset Bends with the Greenlee 555 Elect. Bender Instructor – Kevin Klepper Course Number 1654	OPEN 5:00 – 8:00 pm	Local 159 Training Center 3 hrs. – 3 CEU

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

OSHA 10		COURSE #:	1648
INSTRUCTOR:	Jeremy Crabb	FEE:	None
DATE: Start:	Tuesday, February 27, 2018	TIME:	4:30p – 8:30p
End:	Tuesday, March 6, 2018		
	Course meets twice weekly on Tuesday and Wednesday – first week		
TOTAL HRS:	12 hrs. (3 class session)	# OF CEU:	10 CEUs
LOCATION:	Local 159 Training Center	ROOM:	Classroom A
CLASS MIN:	10	# ENROLLED:	12
CLASS MAX:	19		

The OSHA 10 Hour Construction Industry Outreach Training Program is intended to provide an entry level construction worker’s general awareness on recognizing and preventing hazards on a construction site. Upon successful completion of the course, participants will receive an OSHA 10-Hour Construction Outreach DOL course completion card.

Common Code Calculations		COURSE #:	1735
INSTRUCTOR:	Bill Neitzel	FEE:	None
DATE:	Tuesday, February 27, 2018	TIME:	4:30p – 7:30p
TOTAL HRS:	3 hrs. (1 class session)	# OF CEU:	3 CEU
LOCATION:	Local 159 Training Center	ROOM:	Classroom A
CLASS MIN:	10	# ENROLLED:	18
CLASS MAX:	25		

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.

First Aid/CPR		COURSE #:	1639
INSTRUCTOR:	J Crabb/A Swartz/T Schleicher	FEE:	None
DATE:	Saturday, March 3, 2018	TIME:	7:30a – 4:00p
TOTAL HRS:	8 hrs. (1 class session)	# OF CEU:	8 CEU
LOCATION:	Local 159 Training Center	ROOM:	Classroom A
CLASS MIN:	10	# ENROLLED:	22
CLASS MAX:	22		

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.

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 CONTINUING EDUCATION COURSE OFFERINGS

OSHA 30 (Section C)

INSTRUCTOR: Jeremy Crabb
DATE: Start: March 7, 2018 (Wednesdays)
End: April 25, 2018
TOTAL HRS: 32 hrs. (8 class sessions)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 19

COURSE #: 1769
FEE: None
TIME: 4:30p – 8:30p

OF CEU: 32 CEU
ROOM: Classroom A
ENROLLED: 18

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.

Arc-Fault/Short Circuit/Selective Coordination

INSTRUCTOR: Bill Neitzel
DATE: Monday, March 12, 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 25

COURSE #: 1736
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEU
ROOM: Classroom A
ENROLLED: 5

During this course students will learn what factors affect arc-faults and how to calculate arc-faults using different fault calculators. Students in this course will also complete sample problems to calculate arc-faults.

Significant Changes to the 2017 NEC

INSTRUCTOR: E Kroth/M Freespirit/M Wagner
DATE: Saturday, March 17, 2018
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 12
CLASS MAX: 60

COURSE #: 1651
FEE: None
TIME: 7:00a – 3:30p
OF CEU: 8 CEU
ROOM: Classroom A & B
ENROLLED: 19

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 many 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 (\$46.90) if you would like to keep the Significant Changes textbook, please let the Apprenticeship and Training Office know in advance.**

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 CONTINUING EDUCATION COURSE OFFERINGS

First Aid/CPR

INSTRUCTOR: J Crabb/A Swartz/T Schleicher
DATE: Saturday, March 24, 2018
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 22

COURSE #: 1640
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom A
ENROLLED: 22

See prior course description.

Intro to Electrical Safety Related Work Practices (NFPA 70E)

INSTRUCTOR: Matthew Wilkinson
DATE: Saturday, March 24, 2018
TOTAL HRS: 6 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 24

COURSE #: 1785
FEE: None
TIME: 7:30a – 2:00p
OF CEU: 6 CEUs
ROOM: Classroom A
ENROLLED: 6

This course will introduce electrical safety related work practices (ESRWP) to persons familiar with electrical construction and maintenance. Students will learn basic terms related to safe work practices and will discuss the importance of safety culture in accident prevention. Information relating to the history, development, and application of the NFPA 70E standard will be discussed. Participants will learn to recognize and avoid the hazards that arise with the use of electricity. Students will become familiar with personal protective equipment and learn how to identify the level of PPE required.

Data Cabling 101

INSTRUCTOR: Brian Russ
DATE: Wednesday March 28, 2018
TOTAL HRS: 4 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 20

COURSE #: 1680
FEE: None
TIME: 4:30p – 8:30p
OF CEU: 4 CEU
ROOM: Lab
ENROLLED: 10

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.

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 CONTINUING EDUCATION COURSE OFFERINGS

Residential Requirements Part 1

INSTRUCTOR: Bill Neitzel
DATE: Monday, April 2, 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 25

COURSE #: 1737
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEU
ROOM: Classroom A
ENROLLED: 6

During this course students will be presented with an overview of residential electrical construction requirements with emphasis on basic wiring requirements (receptacle, switch & lighting requirements, circuit requirements, etc.), residential services, residential calculations, safety requirements (AFCI, GFCI, smoke, CO), appliance and AC requirements, how to handle existing installations and more.

Note: This course is available for all classifications and license types. This course is a two-part course, but students will get credit for each part they attend.

First Aid/CPR

INSTRUCTOR: J Crabb/A Swartz/T Schleicher
DATE: Saturday, April 7, 2018 (if needed)
TOTAL HRS: 8 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 22

COURSE #: 1641
FEE: None
TIME: 7:30a – 4:00p
OF CEU: 8 CEU
ROOM: Classroom A
ENROLLED: 10

See prior course description.

Residential Requirements Part 2

INSTRUCTOR: Bill Neitzel
DATE: Monday, April 9, 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 25

COURSE #: 1738
FEE: None
TIME: 4:30p – 7:30p
OF CEU: 3 CEU
ROOM: Classroom A
ENROLLED: 5

See previous course description

Note: This course is available for all classifications and license types. This course is a two-part course, but students will get credit for each part they attend.

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 CONTINUING EDUCATION COURSE OFFERINGS

Conduit Bending Basics

COURSE #: 1811	
INSTRUCTOR: Sam Everly/Jeremy Crabb	FEE: None
DATE: Saturday, April 14, 2018	TIME: 7:30a – 4:00p
TOTAL HRS: 8 hrs. (1 class session)	# OF CEU: 8 CEUs
LOCATION: Local 159 Training Center	ROOM: Lab
CLASS MIN: 10	# ENROLLED: 0
CLASS MAX: 16	

After completing Conduit Bending Basics you will be able to Measure, Calculate, and Bend 90's, Offsets, Three and Four Bend Saddles. Class will be eight hours long with Two hours spent on each Bend. To pass this class you must be able to show the instructor you can Measure, Calculate, and Bend all four bends

Electrician Exam Prep (Section B)

	COURSE #: 1670
INSTRUCTOR: Ed Kroth	FEE: None
DATE: Start: Monday, April 16, 2018	TIME: 4:30p – 7:30p
End: Monday, June 4, 2018	Skip 05/28/2018
TOTAL HRS: 21 hrs. (7 class sessions)	# OF CEU: 18 CEU
LOCATION: Local 159 Training Center	ROOM: Classroom A
CLASS MIN: 10	# ENROLLED: 17
CLASS MAX: 25	

During this course students become familiar with the National Electrical Code (NEC), how they apply the Codeology method to identify the correct section of the NEC, as well as learn various test taking tips. Students will utilize the 2017 Edition of the Mike Holt Electrician Exam Prep Workbook, SPS316 and additional handouts. There will be several test samples used during the course with additional review questions provided. There is a book fee if you would like to purchase the textbook.

Fiber Optic Cable Splicing

	COURSE #: 1810
INSTRUCTOR: Brian Russ	FEE: None
DATE: Tuesday, May 8, 2018	TIME: 4:30p – 8:30p
TOTAL HRS: 4 hrs. (1 class session)	# OF CEU: 0 CEU
LOCATION: Local 159 Training Center	ROOM: Classroom A
CLASS MIN: 10	# ENROLLED: 0
CLASS MAX: 14	

Course description coming soon.

Firestopping Requirements

	COURSE #: 1739
INSTRUCTOR: Bill Neitzel	FEE: None
DATE: Tuesday, May 15, 2018	TIME: 4:30p – 7:30p
TOTAL HRS: 3 hrs. (1 class session)	# OF CEU: 3 CEU
LOCATION: Local 159 Training Center	ROOM: Classroom A
CLASS MIN: 10	# ENROLLED: 3
CLASS MAX: 25	

During this course students will learn Firestopping requirements which will help in knowing where it needs to be installed, why and how to make sure you're not wasting company money by doing more than required, and how to find the rules for the equipment being installed.

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 CONTINUING EDUCATION COURSE OFFERINGS

Courses available upon demand (waiting for students):

Introduction to Greenlee 555 Electric Bender

INSTRUCTOR: Kevin Klepper
DATE: TBD; Spring 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 16

COURSE #: 1652
FEE: None
TIME: 5:00p – 8:00p
OF CEU: 3 CEU
ROOM: Classroom/Lab
ENROLLED: 2

This course is designed to give students a basic understanding of the set up and operation of a Greenlee 555 electric bender. During the 3-hour course, students will learn proper initial set-up, how to change bending shoes, how to calibrate the bender, and how to calculate deduct for a 90-degree bend. This course is primarily for students with very little or no experience with electric benders.

90° Bends with the Greenlee 555 Electric Bender

INSTRUCTOR: Kevin Klepper
DATE: TBD; Spring 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 16

COURSE #: 1653
FEE: None
TIME: 5:00p – 8:00p
OF CEU: 3 CEU
ROOM: Classroom/Lab
ENROLLED: 2

In this 3-hour class students will learn how to calculate deduct (take up) and gain of a 90° bend on a Greenlee 555 Electric Bender. We will also learn how to calculate the center of bend, and the need to learn center of bend on different size conduits. This class is designed for students with limited experience using a Greenlee 555 Electric Bender.

Offset Bends with the Greenlee 555 Electric Bender

INSTRUCTOR: Kevin Klepper
DATE: TBD; Spring 2018
TOTAL HRS: 3 hrs. (1 class session)
LOCATION: Local 159 Training Center
CLASS MIN: 10
CLASS MAX: 16

COURSE #: 1654
FEE: None
TIME: 5:00p – 8:00p
OF CEU: 3 CEU
ROOM: Classroom/Lab
ENROLLED: 2

During this 3-hour class students will learn how to bend a 2-bend offset and a standard kick on a 90° bend using a Greenlee 555 Electric Bender. Special attention will be paid to the difficulty in bending larger pipe, and the need for prior planning to avoid excessive bends. Students will also be shown the need to space bends appropriately. This class is intended for students with little prior knowledge of an electric bender.

Madison Area Electrical Joint Apprenticeship and Training Committee

2017 – 2018 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 of 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 regarding 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.