

MIDWEST RENEWABLE ENERGY ASSOCIATION

STUDENT HANDBOOK

Program and Course Information

Updated June 2019



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1.0 MREA Mission and Vision

The MREA is a non-profit, 501(c)3 tax-exempt organization.

1.1 Mission Statement

The Midwest Renewable Energy Association promotes renewable energy, energy efficiency, and sustainable living through education and demonstration.

1.2 Vision Statement

The MREA will provide the highest quality renewable energy education and training experiences available. Our programs and services will respond to evolving energy issues, empower people to make wise lifestyle choices, and be accessible to the broadest possible audience. We will share our success with other like-minded organizations, recognizing that we are stronger when we all work together for our common goals.

1.3 Non-Discrimination Policy

The MREA does not discriminate on the basis of age, ancestry, color, creed, disability, gender identity, marital status, national origin, political affiliation, race, religion, sex, sexual orientation, or any other class protected by law. The MREA does not discriminate on the basis of these characteristics in providing educational services or in hiring qualified staff and instructors.

1.4 Commitment to Safety and Safe Practices

The MREA is committed to safety and safe practices in training and in the workplace. It is the responsibility of all MREA instructors and staff to ensure that the workplace remains safe and that all training is completed in a safe and professional environment. If an MREA instructor identifies any unsafe conditions or unsafe work practices, he or she shall immediately report the situation to the MREA Site Manager or other available MREA staff member, who shall take immediate steps to remedy the unsafe environment or practice. All MREA courses shall comply with industry standard safety practices for the technology being taught, including appropriate OSHA standards.

1.5 Commitment to Quality and Continuous Improvement

Course standards and prerequisites are reviewed periodically at the MREA All-Instructor Meeting, using relevant evaluation data collected from course participants, as well as input from MREA instructors. The MREA Training Director and staff organize modifications to course standards, and subsequently to course materials, with participation from instructors, training partners, and renewable energy professionals. The MREA is committed to providing education and training that is up-to-date, relevant, flexible, accessible, industry relevant, and meets the needs and expectations of course participants.

2.0 MREA Staff and Board of Directors

2.1 MREA Staff

The MREA is comprised of a Leadership Team that includes the Board of Directors and three MREA staff members.

Leadership Team:

- Nick Hylla, Executive Director nickh@midwestrenew.org
- Gina Miresse, Development Director ginam@midwestrenew.org
- Amiee Wetmore, Operations Director amieew@midwestrenew.org

MREA Staff:

- Taylor Ball, Marshfield Clinic - AmeriCorps, Volunteer Coordinator taylorb@midwestrenew.org
- Ellen Barlas, Solar Workforce Manager ellenb@midwestrenew.org
- Julie Brazeau, Regional Training Coordinator julieb@midwestrenew.org
- Leon Dulak, Site Manager leond@midwestrenew.org
- Kyle Galloway, Development Assistant kyleg@midwestrenew.org
- Jenny Heinzen, Training Director jennyh@midwestrenew.org
- Kaitlyn Kohl, Communications Manager kaitlynk@midwestrenew.org
- Greta Ladenthin, Events Coordinator gretal@midwestrenew.org
- Nick Matthes, Project Manager: Solar Ready Wisconsin matthes@midwestrenew.org
- Marta Monti, Solar Program Manager marta@midwestrenew.org
- Peter Murphy, Solar Program Director peterm@midwestrenew.org
- Jordan Pupols, Events Manager jordanp@midwestrenew.org
- Eric Rehm, Solar Finance Manager ericr@midwestrenew.org
- Christine Riley, Bookkeeper christener@midwestrenew.org
- Amanda Schienebeck, Solar Project Coordinator amandas@midwestrenew.org
- Mark Stultz, IT Administrator marks@midwestrenew.org

2.2 Board of Directors

Board meetings are open to MREA members and the general public. All MREA members in good standing can vote for the Board of Directors. Each membership (either individual or family) receives one ballot. Board members are elected to two-year staggered terms. Individuals interested in running for the Board of Directors must also be MREA members in good standing.

Executive Committee:

PRESIDENT: Pam Ritger – Clean Wisconsin (Milwaukee, WI)
 VICE PRESIDENT: Stanley Minnick – Organic Valley (La Farge, WI)
 FINANCIAL OFFICER: Carol Fisher – Financial Controller at Fleetworthy Solutions (Madison, WI)
 SECRETARY: Lisa Pawlisch – University of Minnesota’s Regional Sustainable Development Partnerships and Extension [CERTs] (St. Paul, MN)

MREA Board Members:

- Gary Dreier – Buzza Dreier & Johnson LLC (Stevens Point, WI)
- Grace Fuhr – Historic Milwaukee (Milwaukee, WI)
- Elizabeth Hittman – City of Milwaukee Office of Environmental Sustainability (Milwaukee, WI)
- Nick Hylla – MREA Executive Director (Custer, WI)
- Alex Jarvis – Solar Systems of Indiana, Inc. (Bloomington, IN)
- Mark Klein – Gimme Shelter Construction (Amherst, WI)
- Jack Kluempke – Minnesota Department of Commerce (St. Paul, MN)

- Jennifer Martin – University of Illinois Sustainable Technology Center (Champaign, IL)
- Mark Pruitt – IL Community Choice Aggregation Network, The Power Bureau (Chesterton, IN)
- Becky Soglin – Sustainability Expert (Iowa City, IA)
- Eric Udelhofen – OneEnergy Renewables (Madison, WI)

2.3 Board of Directors Conflict of Interest Policy

The MREA does not endorse or promote board members, their companies, or their products or services. Board members will not use their association with the organization to imply any endorsement. MREA does not grant preferential treatment toward board members or their companies when selecting instructors or contracting for work to be done on MREA projects or facilities.

Concerns regarding conflict of interest, or requests for our full policy, should be directed to any member of the MREA's Executive Committee.

3.0 MREA Facilities

The MREA has two offices in Wisconsin, one in Minnesota, and travels to provide training throughout the Midwest. MREA headquarters are located at the Renew the Earth Institute in Custer, Wisconsin.

3.1 Renew the Earth Institute (REI) – Custer, WI

The Renew the Earth Institute (REI) is a 4,200 square foot building on 20 rolling acres where people of all ages can learn about renewable energy, energy efficiency, sustainable living and other environmental issues. The REI has a number of working renewable energy systems (PV, solar thermal, and small wind), hands-on educational displays, demonstration gardens, a resource library, classroom, and conference room. The building incorporates energy efficient features, including passive solar design, standing-seam metal roof, day lighting, energy efficient light fixtures, solar tubes, a masonry stove, and in-floor radiant heat. The North Building has additional classroom and lab facilities, as well as more functioning renewable energy systems. Visitors can take guided and self-guided tours of the facilities and renewable energy systems.

7558 Deer Road
 Custer, WI 54423
 715-592-6595
 715-592-6596 (fax)

3.2 Electric Vehicle Charging at the REI

The Renew the Earth Institute (REI) in Custer, WI has eight electric vehicle charging stations available for public use, located underneath the PV carport.

- ABB Fast Charger
- Tesla Charging Station
- Clipper Creek Charging Stations (6)

The ABB Terra 53 DC Fast Charger is equipped with a CHAdeMO connector as well as a CCS connector. The charger can provide up to 50 kW of power but generally runs around 35 kW. Payments are accepted through GreenLots registration. Tesla owners must provide a conversion (adapter) from CHAdeMO or CCS to connect to the ABB Fast Charger.

The Tesla Level II High Power Connector (19.2 kW) can provide up to 80 amps at 240 volts. Cost to charge is free, but donations to the MREA are appreciated.

The six Clipper Creek Level II, HCS40R, 7.7 kW charging stations provide up to 30 amps at 240 volts. Cost to charge is free, but donations to the MREA are appreciated.

3.3 Milwaukee Office

In 2008, the MREA opened an office in Milwaukee. The goal of the Milwaukee office is to increase training and educational opportunities in southeast Wisconsin and beyond. The Milwaukee Office allows the MREA to easily collaborate with other organizations like Milwaukee Shines, the City of Milwaukee's Solar America City program, the Urban Ecology Center, Milwaukee Habitat for Humanity, and Milwaukee Community Service Corps. In September of 2015, the Milwaukee office moved from its former location on Farwell Avenue to Escuela Verde, a public charter school designed to support students interested in sustainability, student-led learning, and restorative justice.

Peter Murphy (Solar Program Director) and Marta Monti (Solar Program Manager) are based in the Milwaukee office.

3628 West Pierce Street
Milwaukee, WI 53215
414-988-7963

3.4 Minnesota Office

In November 2015, the MREA opened an office in Minnesota. The MREA's Twin Cities office works with Minnesota contractors, organizations, and other local partners to expand PV development in the state, educate consumers, and offer professional training opportunities. Since the office opened, we have reached over 1,200 Minnesota residents through public education sessions and deployed over 100 kW of solar. This work is funded by the U.S. Department of Energy's Rooftop Solar Challenge Grant.

Eric Rehm (Solar Finance Manager) is based in the Minnesota office.

428 Minnesota Street, Suite 500
St. Paul, MN 55101

3.5 Offsite Training

The MREA offers courses at the Renew the Earth Institute (REI) in Custer, WI, as well as online and throughout the Midwest at various schools, training facilities, and events. Training can be delivered at technical and community colleges, universities, community centers, offices, shops, labs, production/manufacturing facilities, or any other space that meets the requirements listed in Section 6.1. Customized training is available for groups or events upon request.

4.0 Accreditation and Curricula

The MREA strives to meet the "General Requirements for the Accreditation of Clean Energy Technology Training" as defined in the Interstate Renewable Energy Council (IREC) Standard 01023:2013. MREA course objectives are intentionally aligned with the Job Task Analyses (JTAs) and Learning Objectives

outlined by the North American Board of Certified Energy Practitioners (NABCEP) for their Associate Programs and Solar Professional Board Certifications.

4.1 Curricula and Syllabi

MREA training programs are based on defined curricula and syllabi, which together with course prerequisites cover the content of relevant job task analyses. Course expectations and learning objectives are clearly stated in the syllabus for each course. Course evaluations and quizzes are used to assess learning outcomes. Instructors and industry professionals work with MREA staff to keep course curricula and materials up-to-date and accurate.

4.2 Curricula Management

MREA training materials are developed through a participatory process between MREA staff and instructors, and form the basis for course presentations, resources, activities, worksheets, and assessments. Course materials are reviewed by MREA staff and contracted instructors on an ongoing basis and through periodic instructor meetings. Modifications to MREA course materials are the result of peer review by contracted instructors and industry experts. Any changes made are reported annually to IREC. (See Section 4.4)

4.3 Student Learning Assessment

Assignments and quizzes are used to assess student learning for stated learning objectives in each course. In addition, course evaluations are used to collect information from participants regarding the quality and efficacy of instructors, course content and materials, as well as the MREA registration process and facilities. These evaluations provide the MREA with feedback to improve our training programs. Course evaluations are anonymous. Compiled and summarized results of course evaluations are shared with instructors during their annual review, or upon request. (See Section 8.2)

4.4 Accreditation

The MREA meets the accreditation requirements defined in IREC Standard 01023:2013: “General Requirements for the Accreditation of Clean Energy Technology Training.” IREC Training Provider Accreditation includes the following MREA courses:

- Basic Photovoltaics (PV 101)
- PV Site Assessment (PV 201)
- PV System Design (PV 202)
- PV Sales and Finance (PV 203)
- PV Labs and Design Scenarios (PV 204)
- PV Exam Prep (PV 220)
- Safety and Best Practices for PV Installers (PV 280)
- PV Design and Installation Lab (PV 301)
- PV and Solar Thermal Structural Considerations (PV-ST 411)
- Navigating the NEC (G 110)

5.0 Course Delivery

The MREA delivers courses both online, as well as in a traditional classroom or lab setting. Some courses may contain a combination of classroom, lab, and online activities.

Online courses are delivered in one of three formats:

- Online Tutorials (See Section 5.2)
- Self-paced, with optional live webinars (See Section 5.3)
- Independent Study (See Section 5.4)

5.1 Classroom and Lab Courses

The MREA conducts training throughout the Midwest, either at the Renew the Earth Institute (REI) in Custer, Wisconsin (MREA headquarters) or in other adequate facilities including but not limited to: community and technical colleges, universities, conference rooms, community and convention centers, and office spaces.

Training sites must meet the following requirements:

- Accessibility must conform to the Americans with Disabilities Act (ADA) and be available to all course participants.
- The site must meet all safety and occupancy codes of the jurisdiction where it is located.
- There should be a minimum of 25 square feet of floor space per course participant.
- Acoustics and lighting should be adequate for hearing clearly and reading/writing/working.
- Ventilation and temperature control should be adequate for the health and comfort of course participants and instructors.

Letters of Completion are distributed at the end of the course. The MREA permanently retains electronic copies and records for requested duplicates and transcripts. (See Section 11.5)

The following courses are available only in a classroom or lab setting, and are not available online:

- PV Labs and Design Scenarios (PV 204)
- Roof-Mount PV System Design and Installation Lab (PV 302)
- Inspecting PV Systems (PV 602-603-604)

5.2 Online Tutorials

Online Tutorials are available year-round, and without any instructor interaction. They are free for MREA members. The presentations and resource materials are accessed via the MREA online course website (www.mreacourses.org), and the courses contain no assignments or quizzes. There is no start or end date, and participants do not receive a Letter of Completion or continuing education credits.

The MREA currently offers the following Online Tutorials for MREA members:

- Introduction to Renewable Energy (G 101)
- Solar Electricity (PV 050)
- Solar Water Heating (ST 050)
- Understanding Stray Voltage on Dairy Farms (G 075)
- Wind Electricity (W 050)
- Working with Electricity (G 070)

5.3 Self-Paced Online Courses

Self-paced, instructor-led courses are typically two to eight weeks in length and include weekly live webinars. Presentations, resources, assignments, and quizzes can be accessed at any time via the MREA online course website (www.mreacourses.org) within the scheduled course start and end dates.

Live webinars are recorded and posted on the course page. Participants are encouraged to stay with the pace of the course and take advantage of the live webinars as a chance to interact with the instructor and cohorts, but participation is not a requirement for course completion.

Letters of Completion are emailed to those who successfully complete a course. The MREA permanently retains electronic copies and records for requested duplicates and transcripts. (See Section 11.5)

The following courses are available online, in a self-paced format with weekly (optional) live webinars:

- Basic Photovoltaics (PV 101)
- PV Site Assessment (PV 201)
- PV System Design (PV 202)
- PV Sales and Finance (PV 203)
- Battery-Based PV System Design (PV 230)
- PV System Operations & Maintenance (PV 240)
- Introduction to System Advisor Model [SAM] (PV 430)

5.4 Independent Study (Online) Courses

Seven of MREA's online courses are offered in an independent-study format. There are no start or end dates, no live webinars, registration is open year-round, and participants can work at their own pace.

The following courses are available online as independent-study:

- Navigating the National Electrical Code (G 110)
- PV Exam Prep (PV 220)
- Safety and Best Practices for PV Installers (PV 280)
- Solar Domestic Hot Water Systems (ST 101)
- Solar Thermal Site Assessment (ST 201)
- Introduction to Wind Energy (W 101)
- Small Wind Site Assessment (W 201)

6.0 Course Levels and Numbering System

MREA courses are numbered to designate levels of participant knowledge and experience. The three-digit course number indicates the "level" of training. Any numbers shown after the three-digit course number indicate a specific session or offering of that particular course. (PV 101.01, e.g.)

6.1 Introductory Courses (100-Level)

100-level courses are introductory in nature, have no prerequisites, and can be held either online or in a classroom setting. They contain lecture or presentation materials, resources, activities, and quizzes. 100-level courses are often the prerequisite for 200-level courses (and higher) of the same technology.

6.2 Entry-Level Courses (200-Level)

200-level courses are technology-specific and typically require an introductory course (prerequisite) or experience in the related field to enroll. 200-level courses are offered online or in a classroom setting.

6.3 Hands-On Training (300-Level)

300-level courses are hands-on (workshop) or installation-based, where physical attendance and participation is required. They contain one or more prerequisites, NABCEP Associate status, or field experience to enroll.

6.4 Advanced Courses (400-Level)

400-level courses contain advanced subject material in a specific technology. They are designed for those with previous experience, NABCEP Associate status, or NABCEP Certification. These courses often include continuing education credits (CECs) for NABCEP Certification renewal, and can be offered either online or in the traditional classroom setting.

6.5 Customized Training (600-Level)

600-level courses are primarily intended for code officials, electricians, inspectors, and other Authorities Having Jurisdiction (AHJs) but may also be suitable for advanced design and installation audiences. These courses can be held online or in a traditional classroom setting. Prerequisites may include an introductory-level course, field experience, and/or a license or certification in a related field.

6.6 Instructor Institutes (700-Level)

700-level courses are “train-the-trainer” courses designed for instructors who are active in a renewable energy training program at a partnering school or institution. These can be hybrid courses that contain both online and hands-on components, or they can be taken online as an Independent Study course.

7.0 Courses and Programs

For information regarding current course offerings and prices, visit midwestrenew.org/course-offerings, call the MREA at 715-592-6595 or refer to the 2019 Training Catalog. Members of the MREA (personal memberships) receive a \$20 discount on all MREA courses, and business memberships include the \$20 discount on all MREA courses for two employees.

More information on MREA membership levels and prices can be found at midwestrenew.org/join and on page 28 in the 2019 Training Catalog.

7.1 Photovoltaic (PV) Courses

The MREA offers the following PV courses:

- Basic Photovoltaics (PV 101)
- PV Site Assessment (PV 201)
- PV System Design (PV 202)
- PV Sales and Finance (PV 203)
- PV Labs and Design Scenarios (PV 204)
- PV Exam Prep (PV 220)
- PV System Operations & Maintenance (PV 240)
- Safety and Best Practices for PV Installers (PV 280)
- Roof-Mount PV System Design and Installation Lab (PV 302)
- Introduction to System Advisor Model [SAM] (PV 430)
- Inspecting PV Systems (PV 602-603-604)

7.2 Solar Thermal (ST) Courses

The MREA offers the following solar thermal courses:

- Solar Domestic Hot Water Systems (ST 101)
- Solar Thermal Site Assessment (ST 201)

7.3 Small Wind (W) Courses

The MREA offers the following small wind courses:

- Introduction to Wind Systems (W 101)
- Small Wind Site Assessment (W 201)

7.4 General Renewable Energy (G) Courses

The MREA offers the following general renewable energy courses:

- Navigating the NEC (G 110)

7.5 MREA Solar Training Academy

In an effort to bring the MREA's most popular courses to locations where training is needed, market potential is high, and career opportunities exist, the MREA offers the Solar Training Academy in Wisconsin, Minnesota, Illinois, and Iowa.

Participants in the Solar Training Academy meet one weekend per month, and work through the MREA's core PV course progression: PV 101, 201, 202, 204, and 220. Graduates qualify to sit for the NABCEP PV Associate exam, offered on the last day of the Academy.

The Solar Training Academy met in Milwaukee, WI on the following dates in 2019:

- January 12 PV 101
- January 13 PV 201
- February PV 202 (day one)
- February 10 PV 202 (day two)
- March 2 PV 204
- March 3 PV 220
- March 9 NABCEP PV Associate exam

The Solar Training Academy met in Cottage Grove, MN on the following dates in 2019:

- January 5 PV 101
- January 6 PV 201
- January 26 PV 202 (day one)
- January 27 PV 202 (day two)
- February 23 PV 204
- February 24 PV 220
- March 2 NABCEP PV Associate exam

The Solar Training Academy met in Wood Dale, IL on the following dates in 2019:

- January 12 PV 101
- January 13 PV 201
- February 9 PV 202 (day one)
- February 10 PV 202 (day two)
- March 2 PV 204
- March 3 PV 220
- March 9 NABCEP PV Associate exam

The Solar Training Academy met in Bloomington, IL on the following dates in 2019:

- January 19 PV 101
- January 20 PV 201
- February 16 PV 202 (day one)
- February 17 PV 202 (day two)
- March 9 PV 204
- March 10 PV 220
- March 16 NABCEP PV Associate exam

The Solar Training Academy met in Dubuque, IA on the following dates in 2019:

- January 26 PV 101
- January 27 PV 201
- February 23 PV 202 (day one)
- February 24 PV 202 (day two)
- March 16 PV 204
- March 17 PV 220
- March 23 NABCEP PV Associate exam

The 2020 Solar Training Academy schedule will be released in the fall of 2019.

7.6 NABCEP PV Associate Exam

The North American Board of Certified Energy Practitioners (NABCEP) offers an Associate program as well as Certifications in PV and Solar Heating. The MREA is an approved PV Associate exam provider. MREA course participants who successfully complete PV 101, 201, and 202 are eligible to sit for the NABCEP PV Associate exam. The MREA strives to align its curriculum with the learning objectives set forth by NABCEP in their Job Task Analyses (JTAs). Registration links for the paper and the online exams are located on the MREA website at midwestrenew.org/nabcep-credentials.

7.7 MREA PV Site Assessment Endorsement

On October 31, 2018, the MREA officially retired the Site Assessment Certificate Program, as well as the Recognized Training Provider (RTP) Program, and replaced it with the PV Site Assessment Endorsement. To achieve the PV Site Assessment Endorsement, students must:

- Have (previously) earned the PV Site Assessment Certificate, or
- Have completed Basic Photovoltaics (PV 101) and PV Site Assessment (PV 201), passed the PV Site Assessment Endorsement exam, and have a minimum of 100 hours of related work experience verified by an employer.

The Employer Verification Letter and more information about the PV Site Assessment Endorsement can be found at midwestrenew.org/endorsements.

A minimum score of 84% is required to pass the Site Assessment Endorsement exam, which can be taken online at www.mreacourses.org. A retake exam is available after a two week waiting period. The exams are comprised of 50 multiple-choice questions that have undergone peer review and an interrater reliability process to determine cut and passing scores.

8.0 Academic Progress, Assessment, and Continuing Education

8.1 Course Completion Requirements

Courses are graded as either PASS or DROP in the MREA electronic database. Students who diligently complete all required coursework (assignments, labs, quizzes, e.g.) pass the course and receive a Letter of Completion. The MREA does not employ percentage or letter grading for its courses. Participants receive a Letter of Completion as long as they meet the coursework and attendance requirements for a given course.

Participants must be present for the full duration of and actively participate in the course to receive a Letter of Completion. (See Sections 5.3 and 11.5)

8.2 Assessment Procedures

Students will be assessed on their ability to perform the tasks outlined in the Learning Objectives (contained within the syllabus) for the course. Classroom and lab courses contain worksheets, online activities, job task lists, and/or quizzes. Online courses contain assignments and quizzes that assess a student's performance and comprehension.

8.3 Continuing Education Credits

Many of the MREA's courses are approved for continuing education with the North American Board of Certified Energy Practitioners (NABCEP) and state licensing agencies for licensed professionals in Iowa, Minnesota, and Wisconsin.

The following MREA courses are registered for NABCEP advanced training and continuing education:

- Navigating the NEC (G 110)
 - PV Installation Professional, PV Design Specialist, PV Commissioning & Maintenance Specialist, and PV Technical Sales Professional Exams (JTA & NEC) – 6 hours
 - PV Installation Specialist Exam (JTA) – 6 hours
 - Solar Heating Installer Exam (NEC) – 6 hours
 - PVIP, PVDS, PVIS & PVCMS Recertification (NEC, JTA & RE Elective) – 6 hours
 - PVTs Recertification (JTA & RE Elective) – 6 hours
 - SHI Recertification (NEC & RE Elective) – 6 hours
 - PV Associate, Solar Heating Associate & Small Wind Associate Renewal – 6 hours
- PV Sales and Finance (PV 203)
 - PV Installation Professional Exam (JTA) – 4 hours
 - PV Technical Sales Professional Exam (JTA) – 7 hours
 - PVIP Recertification (JTA) – 5 hours
 - PVIP, PVDS, PVIS, PVCMS, PVTs & SHI Recertification (RE Elective) – 6 hours
 - PVTs Recertification (JTA) – 7 hours
 - PV Associate, Solar Heating Associate & Small Wind Associate Renewal – 7 hours
- PV Labs and Design Scenarios (PV 204)
 - PV Installation Professional & PV Design Specialist Exams (JTA) – 8 hours
 - PVIP, PVDS & PVIS Recertification (JTA & RE Elective) – 8 hours
 - PVCMS, PVTs & SHI Recertification (RE Elective) – 8 hours
 - PVTs Recertification (JTA) – 4 hours

- PV Associate Renewal – 8 hours
- Battery-Based PV System Design (PV 230)
 - PV Installation Professional & PV Design Specialist Exams (JTA) – 4 hours
 - PV Installation Professional, PV Design Specialist, PV Installation Specialist, PV Commissioning & Maintenance Specialist, PV Technical Sales Professional, and Solar Heating Installer Exams (NEC) – 0.5 hour
 - PV Technical Sales Professional Exam (JTA) – 2 hours
 - PVIP, PVDS, PVIS, PVCMS & SHI Recertification (NEC & Building or Fire Code) – 0.5 hour
 - PVIP & PVDS Recertification (JTA & RE Elective) – 4 hours
 - PVIS, PVCMS, PVTS & SHI Recertification (RE Elective) – 4 hours
 - PV Associate Renewal – 4 hours
- PV System Operations and Maintenance (PV 240)
 - PV Installation Professional, PV Installation Specialist, and PV Commissioning & Maintenance Specialist Exams (JTA & NEC) – 4 hours
 - PV Design Specialist, PV Technical Sales Professional & Solar Heating Installer Exams (NEC) – 4 hours
 - PVIP, PVDS & SHI Recertification (NEC & RE Elective) – 4 hours
 - PVIS & PVCMS Recertification (NEC, JTA & RE Elective) – 4 hours
 - PVTS Recertification (RE Elective) – 4 hours
 - PV Associate Renewal – 4 hours
- Roof-Mount PV System Design and Installation Lab (PV 302)
 - PV Installation Professional, PV Design Specialist & PV Installation Specialist Exams (JTA) – 14 hours
 - PV Installation Professional, PV Design Specialist, PV Installation Specialist, PV Commissioning & Maintenance Specialist, PV Technical Sales Professional, and Solar Heating Installer Exams (NEC) – 4 hours
 - PV Commissioning & Maintenance Specialist and PV Technical Sales Professional Exams (JTA) – 10 hours
 - PVIP, PVDS, PVIS, PVCMS & SHI Recertification (NEC) – 4 hours
 - PVIP Recertification (JTA) – 14 hours
 - PVIP, PVDS, PVIS, PVCMS, PVTS & SHI Recertification (RE Elective) – 12 hours
 - PVDS, PVIS, PVCMS & PVTS Recertification (JTA) – 10 hours
 - PV Associate, Solar Heating Associate & Small Wind Associate Renewal – 12 hours
- Introduction to System Advisor Model [SAM] (PV 430)
 - PV Installation Professional, PV Commissioning & Maintenance Specialist, and PV Technical Sales Professional Exams (JTA) – 4 hours
 - PVIP, PVCMS & PVTS Recertification (JTA & RE Elective) – 4 hours
 - PVDS, PVIS & SHI Recertification (RE Elective) – 4 hours
 - PV Associate Renewal – 4 hours
- Inspecting PV Systems (PV 604)
 - PV Installation Professional and PV Commissioning & Maintenance Specialist Exams (JTA) – 4 hours
 - PVIP, PVIS, PVCMS & PVTS Recertification (JTA) – 4 hours
 - PVIP, PVDS, PVIS, PVCMS, PVTS & SHI Recertification (RE Elective) – 4 hours
 - PV Associate Renewal – 4 hours

The following MREA courses have been approved for continuing education by the Iowa Department of Public Safety for Master, Journeyman & Residential Electricians, when taught by an approved instructor:

- Basic Photovoltaics (PV 101) – 7.5 Non-Code hours
- PV Site Assessment (PV 201) – 1 Code & 7 Non-Code hours
- PV System Design (PV 202) – 4 Code & 12 Non-Code hours
- PV Labs and Design Scenarios (PV 204) – 7.5 Non-Code hours
- PV Exam Prep (PV 220) – 5.5 Non-Code hours

The following MREA courses have been approved for continuing education by the Minnesota Department of Labor and Industry, when taught by an approved instructor:

- Basic Photovoltaics (PV 101) – 7 Other hours (Electrical)
- PV System Design (PV 202) – 6 Code/Energy & 10 Other hours (Electrical)
- PV Labs and Design Scenarios (PV 204) – 8 Other hours (Electrical & Elevator)
- Battery-Based PV System Design (PV 230) – 4 Other hours (Electrical & Building Officials)
- PV System Operations and Maintenance (PV 240) – 4 Other hours (Electrical & Building Officials)
- Inspecting PV Systems (PV 602) – 2 Code/Energy hours (Electrical)

The following MREA courses have been approved for continuing education by the Wisconsin Department of Safety and Professional Services (DSPS):

- Navigating the NEC (G 110) – 6 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- Basic Photovoltaics (PV 101) – 7.5 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- PV Site Assessment (PV 201)
 - Commercial & UDC-Electrical Inspectors – 8 hours
 - Dwelling Contractor Qualifiers – 7.5 hours
 - Industrial Journeyman Electricians – 8 hours
 - Journeyman & Master Electricians – 8 hours
 - Registered Electricians – 8 hours
 - Residential Journeyman & Master Electricians – 8 hours
- PV System Design (PV 202)
 - Commercial & UDC-Electrical Inspectors – 16 hours
 - Dwelling Contractor Qualifiers – 12 hours
 - Industrial Journeyman Electricians – 16 hours

- Journeyman & Master Electricians – 16 hours
 - Registered Electricians – 16 hours
 - Residential Journeyman & Master Electricians – 16 hours
- PV Labs and Design Scenarios (PV 204) – 8 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- PV Exam Prep (PV 220) – 6 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- Battery-Based PV System Design (PV 230) – 4 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- PV System Operations and Maintenance (PV 240) – 3.5 hours online & 4 hours classroom
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- Roof-Mount PV System Design & Installation Lab (PV 302)
 - Commercial & UDC-Electrical Inspectors – 14 hours
 - Dwelling Contractor Qualifiers – 12 hours
 - Industrial Journeyman Electricians – 14 hours
 - Journeyman & Master Electricians – 14 hours
 - Registered Electricians – 4 hours
 - Residential Journeyman & Master Electricians – 4 hours
- Inspecting Solar Electric Systems (PV 603) – 3 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians
- Solar Domestic Hot Water Systems (ST 101) – 7 hours
 - Commercial Building & Plumbing Inspectors

- Dwelling Contractor Qualifiers
- Journeyman & Master Plumbers
- Journeyman Plumbers – Restricted Appliance & Service
- Master Plumbers – Restricted Appliance & Service
- UDC-HVAC & Plumbing Inspectors
- Introduction to Wind Systems (W 101) – 8 hours
 - Commercial & UDC-Electrical Inspectors
 - Dwelling Contractor Qualifiers
 - Industrial Journeyman Electricians
 - Journeyman & Master Electricians
 - Registered Electricians
 - Residential Journeyman & Master Electricians

9.0 Prerequisites and Credit for Prior Learning

9.1 Course Prerequisites

Course prerequisites are based on the scope and sequence of individual MREA courses. MREA staff will contact anyone who attempts to enroll in a course without having the proper prerequisite(s) on file.

The following courses have prerequisites:

- PV Site Assessment (PV 201) – PV 101 (or equivalent)
- PV System Design (PV 202) – PV 101 (or equivalent)
- PV Sales and Finance (PV 203) – PV 101 (or equivalent) or NABCEP credential
- PV Labs and Design Scenarios (PV 204) – PV 101 & PV 202 (or equivalent) or NABCEP credential
- PV Exam Prep (PV 220) – PV 101, PV 201 & PV 202 (or equivalent)
- Battery-Based PV System Design (PV 230) – PV 101 (or equivalent) or NABCEP credential
- PV System Operations and Maintenance (PV 240) – PV 101 (or equivalent) or NABCEP credential
- Roof Mount PV System Design and Installation Lab (PV 302) – PV 101 & PV 202 (or equivalent) or NABCEP credential
- Introduction to System Advisor Model (PV 430) – PV 101 (or equivalent) or NABCEP credential
- Solar Thermal Site Assessment (ST 201) – ST 101 (or equivalent)
- Small Wind Site Assessment (W 201) – W 101 (or equivalent)

9.2 Credit for Prior Education and Training

Credit can be granted for those with prior education and training and will be addressed on a case-by-case basis. The registrant will be asked to provide documentation/proof of prior learning in the form of a completion certificate or transcript and may be asked to submit a course syllabus so the learning objectives can be compared to those in the approved and accredited MREA course. If the learning objectives are similar, and MREA staff has determined that the course is satisfactorily equivalent, credit will be granted and the registrant will be granted permission to enroll.

Permanent records are kept in student files to denote any credit that has been granted due to prior education or training. (See Section 11.5)

Credit cannot be granted for those who wants to take the NABCEP PV Associate Exam using the MREA as their Education Provider.

10.0 Instructor and Student Conduct

10.1 MREA Instructors

Instructors for MREA courses are either staff members or independent contractors. All instructors must sign the MREA Instructor Code of Ethics that requires, at a minimum, instructors shall:

- Avoid all conflicts of interest, both in fact and in appearance.
- Refrain from selling products or services to participants.
- Maintain all confidential and proprietary information in the strictest confidence.
- Commit to bringing professionalism, accountability, and integrity to this work.
- Practice and maintain professional competencies according to the educational standards established and maintained by the MREA.
- Immediately report any and all incompetent, unethical, and/or unprofessional conduct by associates or clients to the attention of the MREA.
- Not make any statement or take any action that could bring the client, the certifying body, the process, the industry, the credential, or ourselves into dispute.

10.2 Grievances Against MREA Instructors

All grievances or complaints of any nature in regards to an MREA instructor will be forwarded immediately to the MREA Operations Director (OD). The Coordinator will request a written statement from the individual making the grievance or complaint. Upon receipt of the written grievance or complaint, the OD will follow the steps listed below and have a resolution within 30 business days.

1. Determine whether the grievance or complaint is of a minor or serious nature.
2. If the grievance or complaint is of a minor nature, the OD will take appropriate action.
3. If the grievance or complaint is of a serious nature, the OD shall notify the instructor, the MREA Executive Director, and the Instructor Grievance Committee.
4. The OD shall send a copy of the written grievance or complaint to the instructor, the Executive Director, and the Grievance Committee.
5. The instructor shall be given 10 business days to respond, in writing, to the grievance or complaint.
6. The OD shall set a Grievance Committee meeting within the time frame specified above.
7. The Committee will review the grievance or complaint, and a response regarding appropriate action will be made. Decisions of the Grievance Committee shall be based upon the specifics of the allegations made.
8. The OD will prepare a written report of the resolution and mail it to the instructor within 30 business days of receiving the written allegation.
9. The instructor can submit a written appeal within 10 days of receiving the decision.
10. Upon receipt of an appeal, the OD will forward the appeal to the Executive Director and the Grievance Committee.
11. The Grievance Committee will review the appeal and respond with a decision within 20 business days of receipt of the appeal.
12. Decisions of the Grievance Committee are final.

10.3 Student Conduct and Expectations

The MREA expects professionalism and diligence from its instructors as well as its course participants and Certificate holders in the classroom, in the lab, online, and in the field. Any course or program participant who is showing disrespect to the instructor or other participants will be dropped from the program or course, with no refund, at the instructor's discretion.

The MREA is committed to safety and safe practices in training and in the workplace. Any participant who does not adhere to the safety rules (including OSHA standards) set forth by the instructor will be dropped from the course or program with no refund.

Participants may file a grievance against an MREA instructor if they wish to return to a course or program. (See Section 10.2)

10.4 MREA Logo Guidelines

MREA logo guidelines are designed to give direction on the authorized use and depiction of MREA logos.

- Only artwork MREA files provided may be used.
- The logos may not be altered in any way, including proportion, color, element, type, etc.
- Logos may not be animated, morphed, or distorted in any way.
- The logos, including associated words, may not have additional text wrapped around them.
- Any unauthorized use of MREA logos may result in legal action.

11.0 Registration and Recordkeeping Policies

11.1 Enrollment Policy

MREA courses are open to the public on a first-come, first-served basis. Class size is limited to provide the highest quality educational experience for all participants.

Registration can be done over the phone by calling the MREA at 715-592-6595, or online at midwestrenew.org/course-offerings.

11.2 Payment Policy

The full course fee is due upon registration.

11.3 Cancellation Policy

Anyone who wishes to cancel a course registration should email courses@midwestrenew.org or call the MREA at 715-592-6595. The following fees may apply:

Face-to-face training (classroom, lab, and installation courses)

- **Cancellation two weeks or more prior to start date:** If a registrant cancels two weeks or more prior to the course start date, the registrant forfeits a \$25 processing fee, and the remaining course fee will be refunded.
- **Cancellation less than two weeks prior to start date:** If a registrant cancels less than two weeks prior to the course start date, the registrant forfeits 50% of the course fee, and the remaining tuition will be refunded.

- **Failure to attend or complete a course:** If a registrant fails to attend or doesn't complete a course, the registrant forfeits the entire course fee.

Solar Training Academies

- **Cancellation two weeks or more prior to start date:** If a registrant cancels two weeks or more prior to the Academy start date, the registrant forfeits \$250 and receives the rest in refund. The forfeited \$250 will be credited to the registrant's account and can be used for future MREA courses within the same calendar year.
- **Cancellation less than two weeks prior to start date:** If a registrant cancels less than two weeks prior to the Academy start date, the registrant forfeits \$500 and receives the rest in refund. The forfeited \$500 will be credited to the registrant's account and can be used for future MREA courses within the same calendar year.
- **Failure to attend or complete a course:** If a registrant fails to attend or complete a course, the registrant forfeits the entire course fee.

Courses may be cancelled due to low enrollment, up to three days prior to the start date. Course fees will be refunded, but the MREA is not responsible for costs associated with travel or lodging arrangements. Travel insurance is recommended.

Online courses

- **Cancellation two weeks or more prior to start date:** If a registrant cancels two weeks or more prior to the course start date, the registrant forfeits a \$25 processing fee, and the remaining course fee will be refunded.
- **Failure to participate in or complete a course:** If a registrant fails to complete an online course, the registrant forfeits the entire course fee.
- **Transferring to another course offering:** If a registrant fails to complete an online course by its end date, but requests to transfer to another offering of the same course, the registrant will be charged a \$25 processing fee.
- **Late registration:** Those who want to participate in an online course that is already running, and the registration link has expired (5 days after start date), will be charged a \$25 processing fee.

11.4 Recordkeeping Policy

Per the MREA Board of Directors bylaws adopted in 2009, the destruction of business records and documents must be carefully monitored to eliminate accidental or innocent destruction and assure compliance with all applicable laws and regulations. Electronic records will be retained as if they were paper documents.

The MREA permanently retains customer records – including workshop and course attendance, certifications, and membership.

11.5 Document Control and Information Release

MREA follows a storage and release of confidential records procedures. MREA staff are the only people who have access to student data. Information collected during registration and throughout the training is not shared with people outside MREA staff/instructors unless proper permission has been obtained.

11.6 Veterans Refund Policy

This policy applies exclusively to veterans and others who have been approved by the Wisconsin Department of Veterans Affairs (VA).

When a veteran (or other eligible student approved by the VA) enrolled in an MREA course fails or ceases to attend a course, withdraws from a course, or is terminated for any reason before a course is completed, the school will refund a pro-rata portion of all tuition, fees, and other related charges for that course. The exact proration will be determined by the ratio of the number of days of instruction completed to the total number of course instruction days.

EXAMPLE #1:

PV Design and Installation Lab (PV 301) is a four-day, hands-on course with a registration fee of \$720. If a veteran (or other eligible student approved by the VA) attends only the first day of instruction, the refund would be \$540, as shown by the calculation below:

$$\begin{aligned} \$720 \text{ registration fee} \div 4 \text{ days} &= \$180 \text{ per day of instruction} \\ \$180 \times 3 \text{ missed days} &= \$540 \text{ refund} \end{aligned}$$

EXAMPLE #2:

Basic Photovoltaics (PV 101) is a one-day course with a registration fee of \$110. If a veteran (or other eligible student approved by the VA) fails to attend the course, he or she will be refunded the full registration fee of \$110.

The amount charged to the student for tuition, fees, and other charges when only a portion of a course is completed shall not exceed the approximate pro-rata portion of the total charges for tuition, fees, and other charges that the length of the completed portion of the course bears to its total length.

Refunds will be made within 40 days after the last date attended, the date of the missed course, or the effective date of a withdrawal or termination. This policy is in compliance with the requirements of 38 CFR 21.4255.

2019 Academic Calendar

To view the most up-to-date schedule of course offerings, visit midwestrenew.org/course-offerings. Dates may change, and more course offerings may be added after the publication date of this Student Handbook.

Independent Study Courses, Available Anytime:

Navigating the National Electrical Code [NEC] (G 110.01) Online
PV Exam Prep (PV 220.01) Online
Safety and Best Practices for PV Installers (PV 280.01) Online
Solar Domestic Hot Water Systems (ST 101.01) Online
Solar Thermal Site Assessment (ST 201.01) Online
Introduction to Wind Systems (W 101.01) Online
Small Wind Site Assessment (W 201.01) Online

January

MREA OFFICES CLOSED

Solar Training Academy (PV 101 & PV 201) – Cottage Grove, MN	<i>Jan. 1</i> Jan. 5-6
Basic Photovoltaics (PV 101.01) Online	Jan. 7 - Feb. 3
Battery-Based PV System Design (PV 230.01) Online	Jan. 7-27
Solar Training Academy (PV 101 & PV 201) – Milwaukee, WI & Wood Dale, IL	Jan. 12-13
PV Site Assessment (PV 201.01) Online	Jan. 14 - Feb. 10
PV Sales and Finance (PV 203.01) Online	Jan. 14 - Feb. 10
Solar Training Academy (PV 101 & 201) – Bloomington, IL	Jan. 19-20
<i>MREA OFFICES CLOSED</i>	<i>Jan. 21</i>
PV System Design (PV 202.01) Online	Jan. 22 - Mar. 17
Solar Training Academy (PV 101 & PV 201) – Dubuque, IA	Jan. 26-27
Solar Training Academy (PV 202) – Cottage Grove, MN	Jan. 26-27

February

Introduction to System Advisor Model [SAM] (PV 430.01) Online	Feb. 4-24
Solar Training Academy (PV 202) – Milwaukee, WI & Wood Dale, IL	Feb. 9-10
Solar Training Academy (PV 202) – Bloomington, IL	Feb. 16-17
Basic Photovoltaics (PV 101.02) Online	Feb. 18 - Mar. 17
Solar Training Academy (PV 202) – Dubuque, IA	Feb. 23-24
Solar Training Academy (PV 204 & PV 220) – Cottage Grove, MN	Feb. 23-24
PV Site Assessment (PV 201.02) Online	Feb. 25 - Mar. 24

March

NABCEP PV Associate Exam – Cottage Grove, MN	Mar. 2
Solar Training Academy (PV 204 & PV 220) – Milwaukee, WI & Wood Dale, IL	Mar. 2-3
NABCEP PV Associate Exam – Milwaukee, WI & Wood Dale, IL	Mar. 9
Solar Training Academy (PV 204 & PV 220) – Bloomington, IL	Mar. 9-10
PV Sales and Finance (PV 203.02) Online	Mar. 11- Apr. 7
NABCEP PV Associate Exam – Bloomington, IL	Mar. 16
Solar Training Academy (PV 204 & PV 220) – Dubuque, IA	Mar. 16-17
Battery-Based PV System Design (PV 230.02) Online	Mar. 18 - Apr. 7
PV System Operations and Maintenance (PV 240.01) Online	Mar. 18 - Apr. 7
NABCEP PV Associate Exam – Dubuque, IA	Mar. 23

April

Basic Photovoltaics (PV 101.03) Online	Apr. 1-28
PV System Design (PV 202.02) Online	Apr. 1 - May 27
PV Site Assessment (PV 201.03) Online	Apr. 8 - May 5
PV Sales and Finance (PV 203.03) Online	Apr. 29 - May 27

May

Basic Photovoltaics (PV 101.04) Online	May 6 - June 2
Basic Photovoltaics (PV 101.10) – Custer, WI	May 6
PV Site Assessment (PV 201.08) – Custer, WI	May 7
PV System Design (PV 202.05) – Custer, WI	May 8-9
PV Exam Prep (PV 220.02) & NABCEP PV Associate Exam – Custer, WI	May 10
PV Site Assessment (PV 201.04) Online	May 13 - June 9

PV System Operations and Maintenance (PV 240.02) Online	May 13 - June 9
PV Labs and Design Scenarios (PV 204.01) – Custer, WI	May 17
Roof Mount PV System Design and Installation Lab (PV 302.01) – Custer, WI	May 18-19
Battery-Based PV System Design (PV 230.03) Online	May 20 - June 9
<i>MREA OFFICES CLOSED</i>	<i>May 27</i>
June	
Basic Photovoltaics (PV 101.05) Online	June 17 - July 14
<i>THE ENERGY FAIR – Custer, WI</i>	<i>June 21-23</i>
Battery-Based PV System Design (PV 230.06) – Custer, WI	June 21
PV System Design (PV 202.03) Online	June 24 - Aug. 18
July	
<i>MREA OFFICES CLOSED</i>	<i>July 4</i>
PV Site Assessment (PV 201.05) Online	July 8 - Aug. 4
Basic Photovoltaics (PV 101.11) – Custer, WI	July 15
PV Site Assessment (PV 201.09) – Custer, WI	July 16
PV System Design (PV 202.06) – Custer, WI	July 17-18
PV Exam Prep (PV 220.03) & NABCEP PV Associate Exam – Custer, WI	July 19
PV Sales and Finance (PV 203.04) Online	July 22 - Aug. 18
PV Labs and Design Scenarios (PV 204.02) – Custer, WI	July 26
Roof Mount PV System Design and Installation Lab (PV 302.02) – Custer, WI	July 27-28
Basic Photovoltaics (PV 101.06) Online	July 29 - Aug. 25
August	
PV System Operations and Maintenance (PV 240.03) Online	Aug. 5-25
September	
<i>MREA OFFICES CLOSED</i>	<i>Sept. 2</i>
Basic Photovoltaics (PV 101.07) Online	Sept. 3-29
PV Site Assessment (PV 201.06) Online	Sept. 9 - Oct. 6
Introduction to System Advisor Model [SAM] (PV 430.02) Online	Sept. 16 - Oct. 6
PV System Design (PV 202.04) Online	Sept. 16 - Nov. 10
Battery-Based PV System Design (PV 230.04) Online	Sept. 23 - Oct. 13
PV Sales and Finance (PV 203.05) Online	Sept. 30 - Oct. 27
October	
Basic Photovoltaics (PV 101.08) Online	Oct. 7 - Nov. 3
Basic Photovoltaics (PV 101.12) – Custer, WI	Oct. 7
PV Site Assessment (PV 201.10) – Custer, WI	Oct. 8
PV System Design (PV 202.07) – Custer, WI	Oct. 9-10
PV Exam Prep (PV 220.04) & NABCEP PV Associate Exam – Custer, WI	Oct. 11
PV System Operations and Maintenance (PV 240.04) Online	Oct. 14 - Nov. 3
PV Labs and Design Scenarios (PV 204.03) – Custer, WI	Oct. 18
Roof Mount PV System Design and Installation Lab (PV 302.03) – Custer, WI	Oct. 19-20
PV Site Assessment (PV 201.07) Online	Oct. 21 - Nov. 17

November

Battery-Based PV System Design (PV 230.05) Online

Nov. 4-24

Basic Photovoltaics (PV 101.09) Online

Nov. 11 - Dec. 15

PV Sales and Finance (PV 203.06) Online

Nov. 18 - Dec. 22

MREA OFFICES CLOSED

Nov. 21-22

December

PV System Operations and Maintenance (PV 240.05) Online

Dec. 2-22

MREA OFFICES CLOSED

Dec. 24-25