FEMA REP Program Manual (December 2019)

CY 2019 REP Training Stats

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<tr>
<th>2020</th>
<th>Promo Code</th>
<th>Training Location</th>
<th>FEMA Region</th>
<th>Course Announcement</th>
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<td>July 28-29</td>
<td>20N-0701 RCCC</td>
<td>Virginia (Ft. Eustis)</td>
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<td>20R-0456 RERO</td>
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<td>20N-0558 RAAC</td>
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<td>August 05</td>
<td>20N-1100 RDIR</td>
<td>Virtual Instructor-Led Training (VILT) NEW</td>
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<td>September 20-25</td>
<td>20R-0531 RFOC</td>
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Upcoming Special Feature and Bonus Webinars:

- July 15: Lab Analysis Capabilities - Part 2
  Register Here
- July 29: Fixed Monitoring Locations
  Register Here
- August 4: RadResponder Nationwide Drill Pre-Drill Webinar
  Register Here
- August 11: RadResponder Nationwide Drill: Recording Indoor Radiological Readings
  Register Here
- August 12: Getting Started with CBRNResponder (New User Webinar):
  Register Here
- August 18: RadResponder Train the Trainer Program
  Register Here
- August 25: Nuclear Power Plant Layers and Features
  Register Here
- September 9: Unit Standardizations
  Register Here
- October 14: Organization & Event Dashboards
  Register Here
For additional information contact the appropriate Course Manager:

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<tr>
<th>Course</th>
<th>Day(s)</th>
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<td>RCCC Core Concepts</td>
<td>1.5</td>
<td><a href="mailto:Rufus.MobleyIII@fema.dhs.gov">Rufus.MobleyIII@fema.dhs.gov</a></td>
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<td>RAAC Radiological Accident Assessment Concepts</td>
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<td><a href="mailto:Lisa.Rink@fema.dhs.gov">Lisa.Rink@fema.dhs.gov</a></td>
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<td>RPPP Post-Plume Planning</td>
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<td><a href="mailto:Scott.Hallet@fema.dhs.gov">Scott.Hallet@fema.dhs.gov</a></td>
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To request the delivery of a REP training course in your area, please contact:

<table>
<thead>
<tr>
<th>FEMA Region</th>
<th>Point-of-Contact</th>
</tr>
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<tbody>
<tr>
<td>I</td>
<td><a href="mailto:Barbara.Thomas@fema.dhs.gov">Barbara.Thomas@fema.dhs.gov</a></td>
</tr>
<tr>
<td>II</td>
<td><a href="mailto:Miriam.Weston@fema.dhs.gov">Miriam.Weston@fema.dhs.gov</a></td>
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<td>III</td>
<td><a href="mailto:Joseph.Suders@fema.dhs.gov">Joseph.Suders@fema.dhs.gov</a></td>
</tr>
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<td>IV</td>
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<tr>
<td>V</td>
<td><a href="mailto:Todd.Gemskie@fema.dhs.gov">Todd.Gemskie@fema.dhs.gov</a></td>
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<td>VI</td>
<td><a href="mailto:Elsa.Lopez@fema.dhs.gov">Elsa.Lopez@fema.dhs.gov</a></td>
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<tr>
<td>VII</td>
<td><a href="mailto:Jeffrey.Clark3@fema.dhs.gov">Jeffrey.Clark3@fema.dhs.gov</a></td>
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<td>IX</td>
<td><a href="mailto:Paul.Anderson@fema.dhs.gov">Paul.Anderson@fema.dhs.gov</a></td>
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<tr>
<td>X</td>
<td><a href="mailto:Janet.Hlavaty-LaPosa@fema.dhs.gov">Janet.Hlavaty-LaPosa@fema.dhs.gov</a></td>
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**REP Instructor-Led Courses (Awareness-Level):**

**REP Core Concepts Course (RCCC) (AWR-317) (1.5 days)**

- This course provides an overview of the NRC-licensed nuclear power plant off-site radiological emergency preparedness program. Addresses the REP Program history and sentinel events, federal regulatory policies, basic radiation principles, REP planning guidance (planning standards), REP demonstration guidance (exercise evaluation areas) and the REP Disaster Initiated Review (DIR) process. At the successful completion of this course, the student will have satisfied the instructor-led training prerequisites for both the MGT-445 REP Plan Review Course (RPPR) and the PER-314 REP Exercise Evaluator Course (REEC).
  
  - **Target audience:** Primary - Federal, State, Local, Utility, and Tribal
  - **Course Delivery:** Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - **Course Manager:** Rufus.MobleyIII@fema.dhs.gov
  - **Instructors:** REP Instructor Cadre (REP HQ, and REP Regional staff)
  - **Prerequisite(s):** IS-3 Radiological Emergency Management

**REP Disaster Initiated Review Course (RDIR) (AWR-318) (1.0 day includes TTX) or (0.5-day w/o TTX)**

Currently Under Revision

- The purpose of a Preliminary Capabilities Assessment (PCA)/Disaster Initiated Review (DIR) is to determine the capability of offsite emergency response infrastructure following an extended plant shutdown, or shutdown caused by electric grid blackouts, malevolent act, pandemic or natural disaster (e.g., hurricane, tornado, flood, storm, earthquake) in the vicinity of commercial nuclear power plants.” This course is designed to provide the participant with fundamental knowledge of the PCA/DIR Standard Operating Procedure and Post Disaster Assessment of Offsite Capabilities Checklists. At the end of this course, participants should be able to demonstrate an awareness of the responsibilities, procedures and protocols for the accomplishment of a PCA/DIR and demonstrate an ability to function as a member of a DIR Team by participating in a DIR table-top exercise. During the course the participants will use RadResponder to assist in the collection/dissemination of assessment information and it is recommended that they have a RadResponder account prior to attending the class.
  
  - **Target audience:** Primary – Federal, State, Local, Utility, and Tribal Emergency Managers and personnel that may be involved in the REP Program Preliminary Capabilities Assessment (PCA)/Disaster Initiated Review (DIR)
  - **Course Delivery:** Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - **Course Manager:** Scott.Hallett@fema.dhs.gov
  - **Instructors:** REP Instructor Cadre (REP HQ, and REP Regional staff)
  - **Highly Recommended:** AWR-317 RCCC

**REP Exercise Controller Course (RECC) (AWR-327) (1.0 day)**

- This course provides learners foundational knowledge on the preparation for, and conduct of, Radiological Emergency Preparedness (REP) exercise control, and presents an opportunity for participants to begin building controller skills. To prepare participants to control the flow (play) of scenario events to ensure an exercise is conducted in accordance with the exercise objectives and extent of play.
  
  - **Target audience:** This course is designed for new and experienced controllers from Federal, State, tribal, local emergency management and utilities involved with offsite REP exercise/drill control for NRC-licensed commercial nuclear power plants. In addition, new FEMA staff who will require familiarity with the exercise control process may participate in the course as well.
  - **Course Manager:** Christopher.Bellone@fema.dhs.gov
  - **Course Delivery:** Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - **Instructors:** REP Instructor Cadre (REP HQ, and REP Regional staff)
  - **Highly Recommended:** AWR-317 RCCC
REP Post-Plume Awareness Course (RPPA) (AWR-351) (1.0 days)

- The FEMA/NPD/THD/Radiological Emergency Preparedness (REP) Program has developed an instructor-led course that will help Federal, State, tribal and local emergency managers and planners more effectively meet the challenges presented to the emergency responder community during a radiological incident at a NRC-licensed commercial nuclear power plant (NPP).
  
  The main purpose for the development of this abbreviated awareness-level course is to provide a precise training track which focuses on the specific needs of those 50-mile emergency planning zones jurisdictions responsible for addressing protective actions related to contaminated commercial food products during a radiological incident.

  - The primary target audience is the REP ingestion counties within the 10 to 50-mile EPZ who usually do not write their own plans but rely on State agency plans to identify procedures and capabilities to be implemented during a radiological incident that affects their jurisdiction.
  - A secondary target audience is Federal, State, local, utility, and tribal emergency managers and planners responsible for emergency operations plans and implementation procedures concerning ingestion protective actions response capabilities within the 50-mile EPZ.
  - Other beneficial parties: personnel from supporting agencies involved in response to a radiological incident at an NRC-licensed commercial nuclear power plant.

  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Course Manager: Scott.Hallett@fema.dhs.gov
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)

REP Planning Core Concepts Course (RPCC) (AWR-352) (0.5 days)

- The FEMA/NPD/THD/Radiological Emergency Preparedness (REP) Program has developed an Instructor-Led course that will assist Federal, State, tribal and local emergency managers more effectively meet the planning challenges presented to the emergency responder community during a radiological incident at a NRC-licensed commercial nuclear power plant. This awareness-level 0.5-day course will focus specifically and be limited to the introduction of the existing REP planning methodology. This methodology goes beyond the planning guidance provided in Comprehensive Preparedness Guide - 101 and incorporates the unique preparedness aspects of FEMA’s REP Program.

  - The RPCC target audience is Federal, State, local, utility, and tribal emergency managers and planners responsible for the development, review, and maintenance of REP emergency operations plans and implementation procedures. This abbreviated course is meant to satisfy the prerequisite course requirements in preparations for the MGT-453 REP Post-Plume Planning Course (RPPP) for Ingestion Counties which are not necessarily directly involved in response planning during the Plume (Emergency/Early) Phase of a radiological incident at a NRC-licensed commercial nuclear power plant.

  - Course Manager: Christopher.Bellone@fema.dhs.gov
  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): AWR-317 REP Core Concepts Course (RCCC)
**REP Instructor-Led Courses (Performance-Level):**

**REP Exercise Evaluator Course (REEC) (PER-314) (3.0 days)**

- Topics include regulations and guidelines for evaluating REP exercises, in preparation of, observations during, post-exercise activities, and techniques for exercise evaluation. This also includes the observation of video vignettes of REP exercises and the development of exercise narratives submitted for review by REP adjunct instructors. Federal, State, Local, Tribal, and utility personnel who are involved in the development of off-site REP plans and exercises may apply. This course fulfills the credentialing training requirements for becoming a Type III REP Exercise Evaluator.

  - **Target audience:** Primary – Federal REP-staff and Non-REP staff; Secondary - State, Local, and Tribal
  - **Course Delivery:** Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - **Course Manager:** Christopher.Bellone@fema.dhs.gov
  - **Instructors:** REP Instructor Cadre (REP HQ, and REP Regional staff)
  - **Prerequisite(s):** AWR-317 REP Core Concepts Course (RCCC), MGT-445 REP Plan Review Course (RPPR) OR AWR-352 REP Planning Core Concepts Course (RPCC), and IS-331 Introduction to Radiological Emergency Preparedness (REP Exercise Evaluation)

**Radiological Accident Assessment Concepts Course (RAAC) (PER-316) (5.0 days)**

- This course addresses radiological consequences of accidents involving radiological materials. This includes accidents or incidents involving commercial power reactors, lost sources, dispersion devices, and transportation. The focus of the course is concepts involved in formulating protective action recommendations following a radiological accident, such as dose quantities, atmospheric dispersion, dose projection, protective action guides, and derived intervention levels. Participants engage in problem-solving sessions and a tabletop exercise.

  - **Target audience:** Primary – Federal, State, Local, and Tribal
    - Enrollment is limited to local, State, and Federal technical radiological accident assessment staff. Private sector (i.e., utility company) technical staff also may apply. This course is not intended for emergency management staff. This course requires familiarity with mathematical equations and exponential manipulations. Participants must bring a scientific calculator which they know how to use to perform the required calculations. Participants also should know how to use Microsoft Excel and the Nuclear Regulatory Commission computer code, RASCAL.
  - **Course Delivery:** Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - **Course Manager:** Larry.Brookerd@fema.dhs.gov
  - **Instructors:** REP Instructor Cadre (REP HQ, REP Regional staff, and contractors)
  - **Prerequisite(s):** IS-303 Radiological Accident Assessment Concept
NEW Radiological Accident Assessment Concepts Refresher Course (RAAR) (PER-316-C) (2.0 days)

- This course presents a review of the concepts learned in PER-316, Radiological Accident Assessment Concepts Course (RAAC). For maximum benefit, participants should have completed PER-316 within the last five years. This course addresses the consequences of incidents involving radioactive materials, with emphasis placed on incidents at commercial nuclear power plants. The course focuses on the technical concepts involved in formulating protective action recommendations, including atmospheric dispersion models, dose projection methods, use of protective action guides, analysis of field team data, and calculation of derived intervention levels. Participants engage in problem-solving sessions.
  - Target audience: Primary – federal, state, local, and tribal radiological emergency response coordinators and the radiological health physics staff
    - It is open to a limited number of nuclear facility health physics personnel who are responsible for on-site radiological emergency response.
    - This is a technical course, not a planning course. The course attendees must have knowledge of algebra, including logarithmic/exponential manipulation, radiation concepts, and health physics. Attendees should have responsibilities in nuclear power plant and/or non-reactor incident assessment and have at least a basic knowledge of radiation terminology and emergency response concepts.
  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Course Manager: Larry.Broockerd@fema.dhs.gov
  - Instructors: REP Instructor Cadre (REP HQ, REP Regional staff, and contractors)
  - Prerequisite(s): IS-303 Radiological Accident Assessment Concept; PER-316 Radiological Accident Assessment Concepts Course (RAAC), completed within the last 5 years; Have a responsibility (or potential responsibility) to perform dose assessment during a nuclear power plant incident or other radiological event

NEW REP Field Operations Course (RFOC) (PER-918) (3.5 days)

- The REP Field Operations Course is a 3.5-day, 28-hour training course offering lectures, hands-on training, and team exercises. Students review, discuss information, and practice skills necessary to effectively respond to a commercial NPP radiological incident. The REP Field Operations course culminates with a final team exercise integrating the field operations knowledge and skills learned during the course.
  - Target audience: Any member (or potential member) of an organized Federal, State, Tribal, or local radiological field monitoring team that may respond to an incident involving a commercial NPP. Federal evaluators of commercial nuclear power facilities’ off-site REP exercises and State, Tribal, local, and utility personnel who are involved in the development of offsite REP plans and exercises may also attend. Other responders outside of the 5, 10, and 50 Emergency Planning Zones (EPZs) may attend on a space-available basis.
  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Course Manager: Larry.Broockerd@fema.dhs.gov
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): IS-3, Radiological Emergency Management; IS-100, Introduction to the Incident Command System; IS-200, ICS for Single Resources and Initial Action Incidents; IS-301, Radiological Emergency Response; AWR-317, REP Core Concepts Course (RCCC) (highly recommended).
REP Instructor-Led Courses (Management-Level):

**REP Plume Plan Review Course (RPPR) (MGT-445) (2.5 days)**

- This course focuses on the review of REP emergency plans, specifically the NUREG 0654 FEMA-REP-1, Rev. 1 planning standards that address the public's health and safety. The REP Plume Plan Review Course will include training based on the Comprehensive Preparedness Guide (CPG) -101, familiarization of Hostile Action Based (HAB) plan review, annual plan review and the Annual Letter of Certification Review Guide process.
  - Target audience: Primary - State, Local, Utility, and Tribal; Secondary – Federal REP staff
  - Course Manager: Rufus.MohleyIII@fema.dhs.gov
  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): AWR-317 REP Core Concepts Course (RCCC) and IS-235.e Emergency Planning

**REP Post-Plume Planning Course (RPPP) (v19.1 or v19.2) (MGT-453) (2.5 days)**

- This course focuses on the review of offsite response organizations' radiological emergency preparedness (REP) plans and implementation procedures utilizing the 16 planning standards (from 44 CFR Part 350 and 10 CFR § 50.47) and associated evaluation criteria (from NUREG-0654 FEMA-REP-1, Rev.1 or Rev.2) which address protecting the health and safety of the public when responding during the post-plume phase of a radiological emergency at an NRC-licensed commercial nuclear power plant. The scenario-driven classroom exercises will focus on the participants' organization Post-Plume (Intermediate) Phase plans and implementation procedures for response activities related to Relocation, Reentry, Return using EPA Protective Action Guidelines and the Ingestion Exposure Pathway protective actions following FDA guidelines.
  - Target audience: Emergency Managers and Planners from Offsite Response Organizations with responsibilities within the entire 50-mile Emergency Planning Zone and Radiological Emergency Preparedness Program Staff responsible for reviewing State and County plans and procedures. (Other beneficial parties: personnel from supporting agencies involved in response to a NRC-licensed Commercial Nuclear Power Plant incident.)
  - Course Delivery: Primary – Non-Resident; Secondary – Resident (National Emergency Training Centers)
  - Course Manager: Scott.Hallett@fema.dhs.gov
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): MGT-445 REP Plume Plan Review Course (RPPR) OR AWR-352 REP Planning Core Concepts (RPCC)
REP Resident Courses at Center for Domestic Preparedness (CDP):

Radiological Emergency Response Operations (RERO) (PER-904) (5.0 days)

- Radiological Emergency Response Operations is a five-day course includes lectures, hands-on training, and team exercises. Students learn the concepts, equipment, and procedures related to radiological incident response, including a commercial nuclear power facility. During the course, the responders work in teams to perform radiological emergency response operations in a realistic exercise environment. The course culminates with an exercise that implements the Incident Command system in response to an incident that requires team coordination.

- As this course is being taught, the Advanced Radiological Incidents (ARIO) course will also be in session with both courses coming together in an Integrated Capstone Event. The RERO course will focus on first responder hands-on equipment skills and responsibilities as members of a field monitoring team during radiological Plume and Ingestion Pathway incidents; whereas, the ARIO course will focus on Emergency Operations Center responsibilities, coordination of the field monitoring teams, data collection, and developing recommendations for protective actions.

- For further information refer to link: PER-904 RERO

Advanced Radiological Incident Operations (ARIO) (PER-905) (5.0 days)

- The Advanced Radiological Incident Operations course is a five-day course that provides participants with the advanced skills necessary to safely respond to and manage incidents involving radiological hazards. Participants apply these skills in tabletop exercises based on realistic radiological incident scenarios, set within the Incident Command System structure.

- As this course is being taught, the Radiological Emergency Response Operations (RERO) course will also be in session with both courses coming together in an Integrated Capstone Event. The ARIO course will focus on Emergency Operations Center responsibilities, coordination of the field monitoring teams, data collection, and developing recommendations for protective actions whereas the RERO course will focus on first responder hands-on equipment skills, and responsibilities as members of a field monitoring team during radiological Plume and Ingestion Pathway incidents.

- For further information refer to link: PER-905 ARIO

Radiological Series, Train the Trainer (RAD TtT) (PER-908-1) (4.0 days)

- The Radiological Series, Train-the-Trainer (RAD TtT) is a four-day course designed for individuals the state has identified as part of a cadre of instructors and trainers responsible for providing radiological training in their jurisdictions. The course is designed to strengthen the capacity of trainers by applying principles of adult learning and training and facilitation skills in practice training sessions. The course provides students with the knowledge, skills, and ability to conduct the training for which they are responsible.

- For further information refer to link: PER-908-1 RAD TtT
REP Independent Study (IS) Course List:

**Radiological Emergency Management (IS-3) (Interactive Web-based Course)**

- This course is a prerequisite to the AWR-317 REP Core Concepts Course (RCCC). This independent study course contains information on a variety of radiological topics, including fundamental principles of radiation, nuclear threat and protective measures, nuclear power plants, radiological transportation accidents, other radiological hazards. (Course Length: 10 hours / 1 CEUs)

**Emergency Planning (IS-235) (Interactive Web-based Course)**

- This course is a prerequisite to the MGT-445 REP Plume Plan Review Course (RPPR). This course is designed for emergency management personnel who are involved in developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. It will develop your capability for effective participation in the all-hazard emergency operations planning process to save lives and protect property threatened by disaster. (Course Length: 5 hours / .5 CEUs)

**Radiological Emergency Response (IS-301) (Interactive Web-based Course) Currently Under Revision**

- This course is a prerequisite to -

**Radiological Accident Assessment Concepts (IS-303) (Interactive Web-based Course)**

- This course is a prerequisite for the PER-316 Radiological Accident Assessment Course (RAAC). In this course you will learn how to assess the off-site radiological consequences to the public following a release of radioactivity from nuclear power reactors and non-reactor incidents and how to use this assessment as a basis for recommending protective actions to decision makers. (Course Length: 16 hours / 1.6 CEUs)

**Introduction to Radiological Emergency Preparedness (REP Exercise Evaluation) (IS-331) (Interactive Web-based Course)**

- This course is a prerequisite to the PER-314 REP Exercise Evaluator Course (REEC). This course introduces the student to the basic concepts and terminology of the offsite emergency preparedness program for commercial nuclear power plants. It provides an introduction to the program's exercise evaluation regulations, philosophy, and methodology. (Course Length: 10 hours / 1 CEUs)