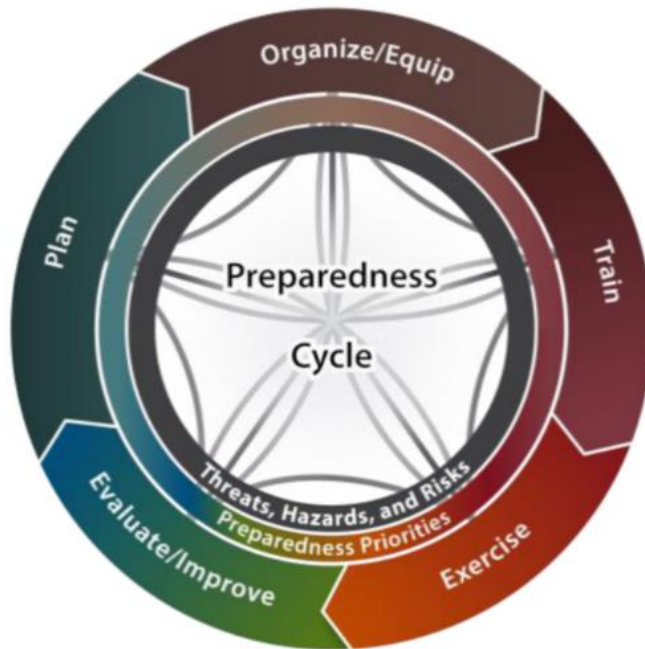




PACIFIC GAS & ELECTRIC COMPANY

MULTI-YEAR TRAINING AND EXERCISE PLAN

2023-2025



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Emergency Preparedness & Response



EMERGENCY PREPAREDNESS & RESPONSE (EP&R), STRATEGY AND EXECUTION (SE)

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1 OVERVIEW

1.1 PURPOSE

The Emergency Preparedness and Response (EP&R) organization sets priorities for Training and Exercises based on various inputs. These inputs include the vision and priorities of Pacific Gas and Electric (PG&E) leadership including legal, federal/state and plan requirements. Also included, is feedback from internal and external stakeholders and partners, threats, hazards and risk assessment data, and an assessment of the organization's ability to perform and deliver core capabilities during exercises and real-world events and incidents.

The Multi-Year Training and Exercise Plan (MYTEP) is the roadmap for implementing PG&E's training and exercise standards, with a three-year outlook. This multi-year strategy and planning cycle identifies priorities in accordance with the inputs listed above. EP&R pursues, with all Functional Areas, a coordinated emergency management strategy that:

- Develops corporate capabilities through a progressive building-block approach to both training and exercises.
- Identifies specific areas for improvement through real-world incidents and exercises, after-action reports, and internal/external feedback.
- Identifies training and exercise requirements to strengthen PG&E's response and recovery capabilities.

Planning three years in advance provides transparency to better coordinate training and exercises across all Functional Areas (FAs). This plan lists activities for years 2023 through 2025. The plan will be reviewed quarterly and updated annually to ensure all training and exercise requirements have been completed and to reflect evolving priorities. The schedules within this plan incorporate the natural progression of training and exercises that should take place in accordance with the *Homeland Security Exercise and Evaluation Program (HSEEP 2020)*.

Training and exercises play a crucial role in EP&R's strategy, providing PG&E with a means of attaining, practicing, validating, and improving capabilities. This plan is designed to consolidate and de-conflict training and exercises relevant for all emergency personnel within PG&E. This will maximize opportunities to coordinate, collaborate, and improve emergency personnel's effectiveness in responding to, recovering from, and mitigating identified threats.



1.2 EMERGENCY PERSONNEL RESPONSIBILITIES

Training and Exercises

When enacted, all emergency personnel will be responsible for reviewing Position Task Books (PTB) and completing their required and/or profiled training. Additionally, emergency personnel must pursue any further training identified in this MYTEP. EP&R will work with all emergency personnel to schedule courses that can be provided through the PG&E Academy. In addition to completing all required training, all emergency personnel are responsible for participating in their identified exercise(s).

Exercise Documentation

Maintaining up-to-date training and exercise records is crucial. All emergency personnel must sign in and out of all trainings and exercises, as they would for a real-world incident. This action not only builds muscle memory for actual responses but allows EP&R to track attendance for regulatory purposes. The sign-in forms and subsequent after-action document from an exercise is one of the verification tools available towards position-specific training. EP&R will retain copies of exercise documentation; organizations who wish to receive a copy of company-wide exercise documentation must receive approval from EP&R (Strategy and Execution) Director.

1.3 COORDINATION WITH EXTERNAL PARTNERS

Exercises may be conducted enterprise-wide or within a specific functional area and in selected regions to meet preparedness goals and address gaps in response capabilities. PG&E invites external partners to observe, provide information, and give presentations during workshops, seminars, and discussion-based exercises. External participants are encouraged to submit feedback after each exercise. In some instances, external partners will be invited to be part of the planning team to enable integrated exercise participation.

PG&E responds to all emergency incidents safely, transparently, and with a strong sense of urgency. Our preparedness, response, and recovery plans are aligned with the needs of the customers and communities we serve.

2 PROGRAM PRIORITIES

Overview

The Emergency Preparedness and Response (EP&R) organization is responsible for communicating, collaborating, and coordinating the company-wide preparedness system within PG&E. This system consists of planning, organizing, equipping, training, exercising, and evaluating emergency plans and procedures for all Functional Areas.

The following documents will be used to communicate the priority for this and all forthcoming three-year MYTEP cycles:

- The Emergency Management Strategy Enterprise Risk Registry and its subset, the Threat and Hazard Identification & Risk Assessment (THIRA).
- PG&E Core Capabilities, After-Action Reports (AARs), and Improvement Plans (IPs) inform the priorities for each three-year MYTEP cycle.

Prioritized Risks for 2023-2025

The following is a list of types of events that we shall be prepared to address and mitigate their effects:

- Catastrophic Events (e.g., Floods, Tsunami, Earthquakes)
- Wildland Fire Events
- Grid Restoration (Capacity Shortfall, Black Start)
- Cybersecurity
- Public Safety Power Shutoff (PSPS) Events

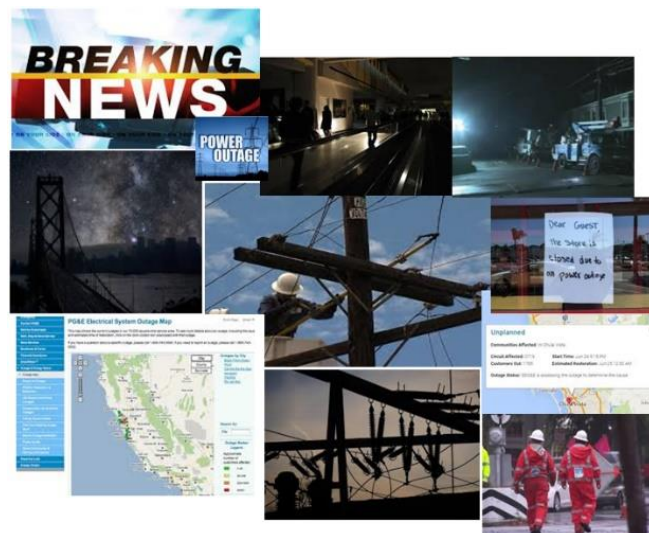


Figure 1: Breaking News Power Outage



Common Core Capabilities

PG&E applies six Common Core Capabilities in every exercise, real-world incident, or event when the Emergency Operation Center (EOC) is activated. These common core capabilities will apply to EP&R's Training and Exercises Program Priorities

1. Operational Coordination
2. Planning
3. Public Information and Warning
4. Operational Communications
5. Logistics & Supply Chain Management
6. Situational Assessment

Note: Additional Core Capabilities may be featured in individual Exercises Plans (ExPlans) and this MYTEP.

Operational Coordination

The goal is to establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and functional areas that support the execution of core capabilities.

Planning

The plan is to implement a systematic process, engaging the whole enterprise as appropriate, in the development of executable strategic, operational, and/or organization-based approaches to meet defined objectives.

Public Information & Warning

Deliver coordinated, prompt, reliable, and actionable information to businesses, employees, and the public. Our goal is use clear, consistent, accessible, culturally, and linguistically appropriate methods to effectively relay information regarding outages, PG&E actions and any assistance being made available, as appropriate.

Operational Communications

Ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response services.

Logistics & Supply Chain Management

Deliver essential commodities, equipment, and services in support of impacted communities and survivors, to include emergency power and fuel support, as well as the coordination of access to community staples. Synchronize logistics capabilities and enable the restoration of impacted supply chains.

Situational Assessment

Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response.

2.1 2023-2025 PROGRAM PRIORITIES

The Training and Exercise Planning Workshop (TEPW) is held annually to gather input from all Functional Areas (FA) to identify priorities and training and exercise schedules. EP&R assembled the following priorities based on previous consultations with FA representatives last year and confirmed at the workshop to continue with these priorities for 2023.

1. Adhere to safety and compliance requirements for training and exercises while maintaining a tactful approach to minimize operations disruption, to be conducted over this three-year plan, updated annually as necessary.
2. Continue to improve and mature the PG&E EP&R Training and Exercise Programs to align with state and federal emergency management frameworks.
 - a. *Homeland Security Exercise and Evaluation Program (HSEEP)*
 - b. *National Incident Management System (NIMS) and Standardized Emergency Management System (SEMS)*
 - c. PG&E EP&R Training Curriculum
3. Use a progressive training and exercise approach for all emergency personnel and incorporate Business Continuity and Recovery Planning to test, practice, and strengthen incident preparedness and response.
4. Continually revise and update training, exercises, and emergency plans incorporating Corrective Actions (CAs) from After-Action Reports (AARs) and Improvement Plans (IPs) to ensure testing for validation in future exercises.

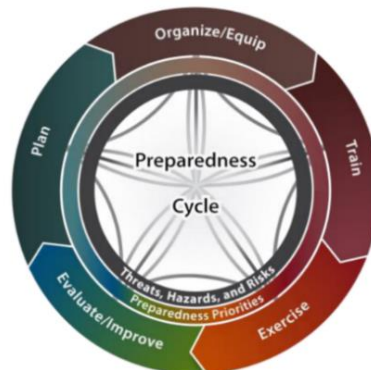


Figure 2: HSEEP Integrated Preparedness Cycle

2.2 PRIORITY 1

Priority 1 - Adhere to safety and compliance requirements for training and exercises while maintaining a tactful approach to minimize operations disruptions, to be conducted over this three-year plan, updating annually as necessary.

Safety and compliance are the top priorities at PG&E. The Multi-year Training and Exercise Plan will allow for a clear understanding of expectations and requirements among emergency response personnel employed by PG&E and its partner organizations. Additionally, thoughtfully scheduling training and exercises can minimize disruption to day-to-day operations. The corresponding rationale includes a matrix outlining PG&E's minimum compliance requirements for Training and Exercises (Table 1). While the following capabilities are part of safety and compliance, PG&E may not exercise all during this three-year plan.

2.2.1 CORRESPONDING CAPABILITIES

Safety Corresponding Capabilities

- Environmental Response, Health & Safety
- Physical Protective Measures
- On-Scene Security and Protection
- Public Information and Warning
- Mass Care Services

Compliance Corresponding Capabilities

- Intelligence and Information Sharing
- Operational Coordination
- Planning
- Fire Management and Suppression

2.2.2 OBJECTIVES

1. EP&R will integrate Corporate Safety & Corporate Security objectives into all training and exercises.
2. PG&E will adhere to compliance requirements and metrics as defined in Table 1.
3. PG&E Exercises will be prepared and conducted consistently with PG&E's safe work practices. Performing exercise procedures will not raise the risk of a specific hazard to personnel, the public, or equipment.
4. EP&R will ensure training curriculum with PG&E Academy includes refresher training on facility safeguards such as access and workstations.

Table 1 lists all the required exercises for the PG&E Functional Areas, the Authority Having Jurisdiction (AHJ), and the applicable related document or standard.



Table 1: Exercise Compliance Matrix

Compliance Matrix						
Functional Area (FA)	Authority Having Jurisdiction (AHJ)	Document Standard	Area/System	Test/Exercise Requirement per AHJ	Test/Exercise Requirement per MYTEP/ FA Emergency Response Plan	POC
Cyber	NERC (North American Electric Reliability Corporation)	<ul style="list-style-type: none"> CIP-008 EMER-3102M 	Cyber – Incident Reporting and Response Planning	15 Months Alternating years with GridEx and Cyber TTX	15 months	
IT		CIP-009	Recovery Plan for BES Systems	15 Months or responding to a real incident	12 Months	
Power Generation	NERC	EOP-005-3 R15	Black start Training	Bi-Annual Training		
		R16	System Restoration	Twice a year as requested by CAISO		
Transmission Grid Ops/ETEC	NERC	EOP-005-3, R8 PER-005-2, R1 & R2	System Restoration	Annual Exercise	Identified as outcome of Systematic Approach to Training (SAT) as part of the Training Program	
		EOP-005-3, R10	System Restoration	Annual Exercise facilitated by the Reliability Coordinator (RC)		
Hydropower	FERC (Federal Energy Regulatory Commission)	FERC Chapter 6 Engineering Guidelines	Emergency Action Plan (Dams)	Annual Phone Drill (except in years when comprehensive exercise is performed)		
			Emergency Action Plan	Annual Seminar (except in years when comprehensive exercise is performed)		
			Emergency Action Plan	TTX Every 5 years	TTX Every 5 years	
			Emergency Action Plan (Dams)	FE every 5 years	FE every 5 years	
Nuclear	NRC	NUREG-0654 Part II Section N.2.a.	Comms drill with County and State	Monthly		
		NUREG-0654 Part II Section N.2.e.1.	Communication Drill with DCP, Corporate, EOF, and Field Teams	Annual		
		NUREG-0654 Part II Section N.2.e.1	Health Physics Drills	Semi-Annual		
		NUREG-0654 Part II Section N.2.d	Radiological Monitoring Drill - Plume Phase	Annual		
		NUREG-0654 Part II Section N.2.d	Radiological Monitoring Drill - Environmental Phase	Annual		
		NUREG-0654 Part II	Medical Emergency	Annual		

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		Section N.2.c	Drill			
		Emergency Plan Section 8	Core Damage Assessment Drill	Annual		
		10 CFR 50 Appendix E.IV.F.2.b	NRC Evaluated Onsite Exercises	Biennial		
		10 CFR 50 Appendix E.IV.F.2.c	FEMA Evaluated Offsite Exercises	Biennial		
		10 CFR 50 Appendix E.IV.F.2.b	Full Scope Drills - Principal Functional Areas (biennial on years opposite NRC evaluated exercise)	Biennial		
Nuclear	NRC (Nuclear Regulatory Commission)	NRC Interim Staff Guidance ISG-01	Assembly and Accountability Drill	At least once per 8-year cycle		
		NRC Interim Staff Guidance ISG-01	Augmentation Drill	Over the course of 8-year cycle		
		NRC Interim Staff Guidance ISG-01	Off Hours Drill (between 6:00 p.m. and 4:00 a.m.)	Over the course of 8-year cycle		
		NRC Interim Staff Guidance ISG-01	Unannounced Drill	Over the course of 8-year cycle		
		NRC Interim Staff Guidance ISG-01	10 CFR 50.54(hh)(1) Drill-Response to an Aircraft Threat	Over the course of 8-year cycle		
		NRC Interim Staff Guidance ISG-01	10 CFR 50.54(hh)(2) Drills-Mitigate Spent Fuel Pool Damage Scenarios (all strategies)	Over the course of 8-year cycle		
		NRC Interim Staff Guidance ISG-01	10 CFR 50.54(hh)(2) Drills-Mitigate Reactor Accidents And Maintain Containment (all PWR strategies)	Over the course of 8-year cycle		
		NRC IP 71114.08 Element 13	Emergency Power Drill	At least once per 8-year cycle		
		NRC IP 71114.08 Element 14	ERF Evacuation/Relocation Drill	At least once per 8-year cycle		
		10 CFR 50 Appendix E.IV.F.2.d	Ingestion Pathway Zone Exercises (IPX)	At least once per 8-year cycle		
		10 CFR 50 Appendix E.IV.F.2.j	Hostile Action-Based Event (HABE) Exercises	At least once per 8-year cycle		
				NUREG-0654 Part II Section N.2.b	Fire Drills	Per TQ1.DC12
Electric	CPUC (California Public Utilities Commission)	GO 166 Standard 3 ICS Training Matrix	Electric	Every year unless a plan is used to respond to a real event that year	Annual	EP&R & specific FAs
Wildfire	CPUC	<ul style="list-style-type: none"> Rulemaking 18-12-005 Appendix A (b) De-energization Exercises 	Wildfire	Annually before fire season (9/1), TTX minimum	Annual	EP&R

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		<ul style="list-style-type: none"> Wildfire Mitigation Plan (WMP) Wildfire Annex 				
PSPS PMO	CPUC	<ul style="list-style-type: none"> Phase 1: 19-05-042 PSPS OII: 12.06.014 PSPS Phase 2 Decision 20-05-051 PSPS Phase 3 Decision 21-06-034 	PSPS/AFN/Customer	Annually: One TTX, one FE, two communication drills Annually before July 1	Annual	EP&R, PSPS PMO
Gas Reservoir	CalGEMS CPUC	<ul style="list-style-type: none"> CCR Chapter 4 Title 1726.3.1 (c)(6) CCR Chapter 4 1726.3.1 (c)(7) (8) Recordkeeping for all drills and training 	Gas Storage	Drills involving the Division and local emergency response entities and an effective training program	Annual	
Public Safety Specialists	CPUC	<ul style="list-style-type: none"> CPUC 956/956.5 	Contingency planning meetings with fire agencies		Annual	PSS
		<ul style="list-style-type: none"> CPUC 11-07-004 	Regulatory workshops and Public Safety Liaison meetings (GO-112F)	Triennial		
		<ul style="list-style-type: none"> CPUC 768.6/AB1650 	Training related to electric disasters/ emergency preparedness plans	Bi-Annual Training		
		<ul style="list-style-type: none"> 49CFR, 192.615C/616 	Gas safety outreach and training efforts			



Figure 3: Workforce Safety



2.2.3 RATIONALE

1. To keep employees and contractors safer and healthier through a “One PG&E Approach.” (Figure 3)
2. To maintain compliance with all Authorities Having Jurisdiction (AHJ).

2.2.4 SUPPORTING TRAINING COURSES AND EXERCISES

Table 2 lists all the corresponding training and exercises that support this priority.

Table 2: Priority 1 Supporting Training Courses and Exercises

Training (additional compliance trainings in Table 3)
SAFE-0120WBT COVID-19 Protocols
ENVR-9015WBT HazMat/Waste General Awareness
SAFE-3002WBT Wildfire Smoke Exposure Prevention
SAFE-0070WBT Wildfire Awareness Basics
CORP-0804WBT Cyber & Physical Security Awareness
CORP-9943WBT Records and Information Management
EPRS-9301ILT ICS/PSPS Workshop
SAFE-0409WBT Office Ergonomics
SAFE 1500 WBT Hazard Communication
PGEN-0107WBT Emergency Action Plan
Exercises
PSPS Exercise
Wildfire Exercise
Grid Control Exercise
DCPP Exercise
Cybersecurity Exercise

2.3 PRIORITY 2

Priority 2 - *Continue to improve and mature the PG&E EP&R Training and Exercise Programs to align with state and federal emergency management frameworks.*

- *Homeland Security Exercise and Evaluation Program (HSEEP)*
- *National Incident Management System (NIMS) and Standardized Emergency Management System (SEMS)*
- *PG&E EP&R Training Curriculum*

HSEEP

The Homeland Security Exercise and Evaluation Program (HSEEP) provides a common methodology for designing, conducting, and evaluating exercises. HSEEP is a set of fundamental principles for exercise programs used at the state, county, and local levels.



Aligning to HSEEP ensures that PG&E has the same or similar approach as our stakeholders, allowing for a common language and methodology during exercises and real events. The Training and Exercise Standard outlines PG&E's application of the HSEEP methodology.

All PG&E exercises must follow the Homeland Security Exercise and Evaluation Program. This ensures PG&E uses a common methodology when responding to exercises and real events with our stakeholders and strengthens incident response and recovery efforts.

NIMS and SEMS

The National Incident Management System (NIMS) defines minimum training requirements for incident personnel, facilitating a coordinated response, and defines minimum qualification criteria, including minimum training for many deployable positions that are included in the National Qualification System (NQS). NIMS is a standardized approach to incident management based on The Incident Command System (ICS). (*National Incident Management System (NIMS)*. October 2017).

The Standardized Emergency Management System (SEMS) is a cornerstone of California's emergency response system and the fundamental structure for emergency management's response phase. The system unifies all of California's emergency management community elements into a single integrated system and standardizes key elements.

All emergency personnel will be provided enhanced training and resources to align with the National Incident Management System training requirements and California's Standardized Emergency Management System.

EP&R has developed an ICS training curriculum (Figure 4) that builds on a foundation of pre-requisite courses and supports all EOC activation activities, including ICS training, EOC orientation, and position-specific courses for emergency personnel. The training curriculum will be implemented in alignment with this plan, leading up to various exercises using the progressive approach, as discussed throughout this document, and the training and exercise standards.

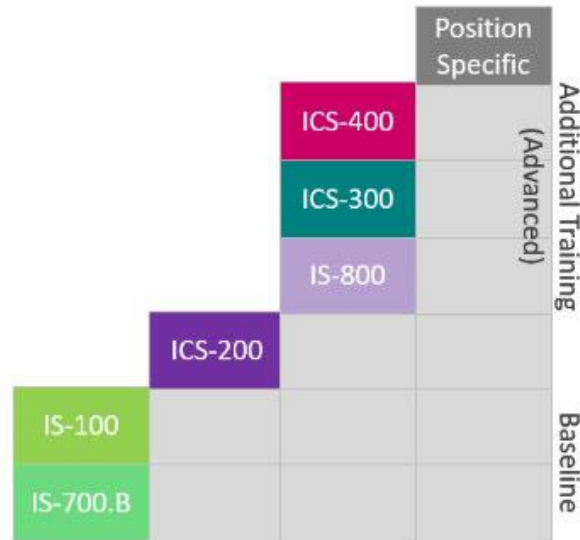


Figure 4: ICS Training Curriculum

Training Levels

Course details are presented in Table 3.

- ICS BASELINE Courses
 - These are the foundational SEMS and NIMS courses required of all EOC personnel and pre-requisites to any advanced training.
- EXPANDED - CSTI EOC Courses
 - Training curriculum recommendation as per the State's (CSTI) request all EOC staff take the following courses:
 - IS-368 Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations Answers
 - G-191 ICS Field/EOC Interface
 - G-626 EOC Action Planning
 - G-775 EOC Management and Operations
- ADVANCED - ICS for Select Personnel
 - Provides intermediate training
 - ICS-300 to EOC supervisory positions and advanced training
 - ICS-400 for some Command staff.
- POSITION-SPECIFIC Training
 - Focuses on training for specific EOC roles.

2.3.1 CORRESPONDING CAPABILITIES

- Planning
- Operational Coordination
- Operational Communications



2.3.2 OBJECTIVES






1. Ensure EOC personnel perform more efficiently in incident response activities, simulated or real-world activations, aligned to NIMS and SEMS training standards by providing enhanced training tools and additional training courses.
2. Ensure identified personnel complete training requirements defined above to demonstrate competency in target subject matter areas.
3. Conduct all levels of training, enabling the acquisition of a Type III Incident Management Team certification through (FEMA's Emergency Management Institute).
4. Continue onboarding training documentation and training new EOC personnel.
5. Continue to deliver Position-specific training for emergency responders who have met all pre-requisites.
6. Improve proficiency in the use of response coordination tools such as MS Teams, ARCOS, TAMI, OMT, Palantir, Everbridge Mass Notification System.

2.3.3 RATIONALE

1. Maintain compliance (see Table 1 Exercise Compliance Matrix).
2. PG&E has agreed to align with NIMS and SEMS, for the same purpose as aligning to HSEEP, to have a common methodology when responding to exercises and real events with our stakeholders.
 - a. *National Incident Management System*, Third Edition, October 2017
 - b. *National Preparedness Goal*, Second Edition 2015
 - c. *Homeland Security Exercise and Evaluation Program (HSEEP)*, January 2020
3. Area for Improvement (January 2020 EQ FE AAR): While PG&E personnel showcased their ability to coordinate within functional areas and leveraged their technical expertise from blue-sky roles, a lack of familiarity with ICS principles impeded PG&E's ability to coordinate across business functions.

2.3.4 SUPPORTING TRAINING COURSES (NIMS, SEMS)

Table 3: Priority 2 Training Courses NIMS, SEMS

SEMS/ICS Training		
    		
BASELINE Training Courses		
<p>The BASELINE set of courses are required for every EOC role. These courses are prerequisites to taking the ADVANCED ICS-300, ICS-400, and position-specific courses.</p>		
Hrs./Format	Academy Course Code	CSTI/FEMA Course Name
4/WBT	ICS-0100	IS-100/ICS-100.c: An Introduction to the Incident Command System
4-6/WBT	ICS-0200	IS-200/ICS-200.c: ICS for Single Resource and Initial Action Incidents
4-6/WBT	ICS-0700	IS-700.b: An Introduction to the National Incident Management System
4-6/WBT	ICS-0800	IS-800: National Response Framework, An Introduction
4/WBT	ICS-0606	G606 Standardized Emergency Management System Introductory Course
EXPANDED Training Courses		
<p>The EXPANDED set of courses are required additions for some of the EOC roles as per the State's (CSTI) request. These courses are not prerequisites to taking the ICS-300, ICS-400, and position-specific courses.</p>		
Hrs./Format	Academy Course Code	CSTI/FEMA Course Name
2-4/WBT	pending	IS-368: Access and Functional Needs in Disaster Operations
16/ILT	EPRS-0775	G-775: EOC Management and Operations
8/ILT	EPRS-0191	G-191: ICS Field/EOC Interface
8/ILT	EPRS-0626	G-626: EOC Action Planning



ADVANCED Training Courses		
ADVANCED courses are ICS for select personnel. This training curriculum will provide intermediate training (ICS-300) to EOC supervisory positions and advanced training (ICS-400) for Command and General Staff. These courses are prerequisites for the Position-specific courses.		
Hrs./Format	Academy Course Code	CSTI/FEMA Course Name
24/ILT	EPRS-0300	ICS-300: Intermediate ICS for Expanding Incidents
16/ILT	EPRS-0400	ICS-400: Advanced ICS for Command and General Staff

2.3.5 SUPPORTING TRAINING COURSES (EP&R CURRICULUM)

Table 4: Priority 2 Training Courses EP&R Curriculum

Position-specific Training		
The Position-specific courses focus on training for specific EOC roles.		
Hrs./Format	Academy Course Code	CSTI/FEMA Course Name
8/ILT	ICS-0001	G-611P: Planning Section Chief
8/ILT	ICS-0002	G-611F: Finance Section Chief
8/ILT	ICS-0003	G-611L: Logistics Section Chief
8/ILT	ICS-0005	G-611O: Operations Section
8/ILT	EPRS-0611M	EOC Section Overview - Management

2.4 PRIORITY 3

Priority 3 - Use a progressive exercise approach for all emergency personnel and incorporate Business Continuity and Recovery Planning to test, practice, and strengthen incident preparedness and response.

EP&R will progressively train and exercise PG&E’s ability to effectively respond to and recover from Prioritized Risks identified above. EP&R will accomplish this by using all-hazards capabilities, developing strategies, communicating, collaborating with all internal Functional Areas, and coordinating with local, state, and federal partners. The MYTEP lays out a combination of progressive exercises, along with associated training requirements to validate the preparedness of PG&E’s plans and operational readiness in an all-hazards environment. EP&R maintains this integrated training and exercise program for all Functional Areas. Capabilities are typically introduced through a

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progressive approach (Figure 5), first by a training opportunity such as a seminar or workshop and then exercised in a Tabletop Exercise (TTX), Functional Exercise (FE), or Full-Scale Exercise (FSE). Training and Exercises will include both Business Continuity and Recovery Planning to enhance emergency personnel’s effectiveness in supporting recovery and continuity of operations.

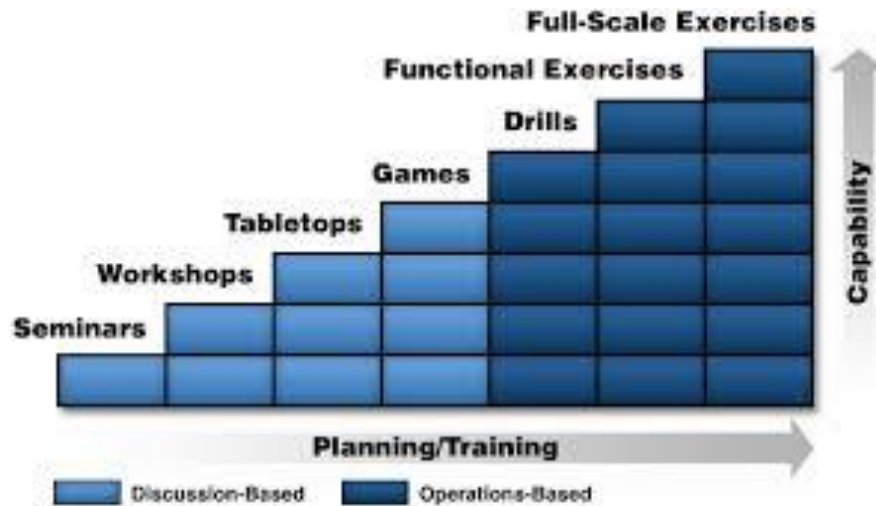


Figure 5: HSEEP Progressive Training and Exercise Approach

2.4.1 CORRESPONDING CAPABILITIES

- Planning
- Operational Coordination
- Operational Communications
- Public Information and Warning
- Situational Assessment
- Threat and Hazards Identification
- Risk and Disaster Resilience Assessment
- Economic Recovery
- Natural and Cultural Resources
- Cybersecurity

2.4.2 OBJECTIVES

1. EP&R will incorporate Business Continuity and Recovery Planning into Training and Exercises, practice response to recovery methods, support the continuity of operations and identify ways to improve recovery time/point objectives.
2. Continue to build on multi-commodity communication and coordination, work assignments, and building work packets during emergencies.



3. Continually update and revise Emergency, Business Continuity, and Recovery Plans based on real-world incidents and exercise AARs/IPs.
4. Continue training to fulfill Business Impact Analysis (BIA) requirements.

2.4.3 RATIONALE

1. Areas for Improvement (2017): EOC personnel and field personnel could better coordinate operations with common training and understanding of relevant plans, procedures, and policies.
2. Areas for Improvement (2017): Greater integration of business continuity plans with emergency plans (including cyber annex) could improve enterprise sustainability and synchronization.
3. Areas for Improvement (2017-2019): Situational Assessment has been identified throughout the previous real-world and exercise incidents/events AARs.

2.4.4 SUPPORTING TRAINING COURSES AND EXERCISES

Table 5: Priority 3 Training Courses and Exercises

Training
EMER-0401WBT Earthquake Annex WBT
EPRS-9010WBT CERP Overview
EPRS-9011WBT Electric Annex to the CERP
CORP-0804WBT Cyber & Physical Security Awareness
EPRS 9107WBT Cyber Response for the EOC
Progressive Exercises
2022 Earthquake Seminars, 2023 Earthquake TTX and FSE
2022 Cyber TTX with integrated Business Continuity Plans
2023 GridEx VII FE
2023 PSPS Seminar, TTX, FE

2.5 PRIORITY 4

Priority 4 - Continually revise and update training, exercises, and emergency plans incorporating Corrective Actions (CAs) from After-Action Reports (AARs) and Improvement Plans (IPs) to ensure testing for validation in future exercises.

EP&R will incorporate corrective actions from exercise and real-world incident AARs into exercises for validation. Corrective actions will be tracked through the Corrective Action Program (CAP) to ensure all relevant items are validated and used to update plans and procedures.

2.5.1 CORRESPONDING CAPABILITIES

- Planning
- Intelligence and Information Sharing
- Infrastructure Systems
- Operational Coordination
- Operational Communications

2.5.2 OBJECTIVES

- Conduct meetings with Functional Area (FA) exercise specialists to provide status updates on identified corrective actions from real-world incidents and exercises.
- Continually examine the implementation of corrective actions to identify any capability gaps and identify which corrective actions need validation through exercises.
- Ensure relevant corrective actions from previous exercises and real-world incidents are incorporated in training and future exercises for enforcement and validation.

2.5.3 RATIONALE

- The EP&R strategy and execution team identified that an AAR improvement process using a Lean methodology would contribute to the overall optimization of the organization. (Womack & Jones. *Lean Thinking.*) and (*After-Action Report (AAR) Kaizen.* 2020).
- EP&R conducted several hotwashes and AAR meetings and finalized two PSPS AARs in 2021, which identified correctives action that will go into the CAP as needed.



2.5.4 SUPPORTING TRAINING COURSES AND EXERCISES

Table 6: Priority 4 Training Courses and Exercises

Training
Corrective Action Program WBT CORP-6050 WBT Introduction to CAP
HSEEP Course
FEMA Emergency Management Institute (EMI): IS-120.c An Introduction to Exercises
Exercises
All exercises will incorporate an after-action process and improvement plan with corrective actions.



3 PROGRESSIVE TRAINING AND EXERCISE SCHEDULES

The following section contains PG&E’s Multi-Year Training and Exercise schedules for 2023-2025. The schedules identify pre-planned training and exercises that align with the priority core capabilities. The Multi-Year Training and Exercise schedules will be continuously updated and distributed at least quarterly.

Legend







	Seminar		Tabletop Exercise
	Workshop		Functional Exercise
	Drill		Full-Scale Exercise



Table 8: Multi-Year Exercise Schedule 2023-2025

FA or Hazard	Quarter 1 - 2023			Quarter 2 - 2023			Quarter 3 -2023			Quarter 4 - 2023			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
EP&R POC: [REDACTED]			All Hazards Seminar March 2			Summer/ Capacity Seminar June 21			Training & Exercise Planning Workshop Sep 13		Winter Preparedness Seminar Nov 8		
PSPS POC: [REDACTED]			PSPS Seminar March 14 PSPS FE March 27-31			PSPS TTX June 6		PSPS Seminar August 29					
Wildfire POC: [REDACTED]				Wildfire Seminar April 19									
Earthquake POC: [REDACTED]									EQ Flood FSE (Mokelumne Watershed FE and Gas component) Aug 14-18 (T)				
Gas POC: [REDACTED]	Live Action Drill	Live Action Drill	Kern Live Action Drill March 13	Sac Live Action Drill April 17			Mission Live Action Drill July 17	Live Action Drills Central Coast Aug 7 Peninsula Aug 21		Sonoma Live Action Drills Sept 11	Sierra Live Action Drill Oct. 23	Stockton Live Action Drill Nov 13	Fresno Live Action Drill Dec 4
PG Hydro POC: [REDACTED]		Drum Spaulding Watershed Seminar Feb 15	Haas-Kings Watershed Seminar March 15	Crane Valley Watershed Seminar April 26	Potter Valley Watershed Seminar May 24								
	Drum Spaulding Watershed Phone Drill Jan 17-18	Stanislaus Watershed Phone Drill Feb 15-16	Haas-Kings Watershed Phone Drill March 8-9	Crane Valley Watershed Phone Drill April 13	Potter Valley Watershed Phone Drill May 10	Shasta Watershed FE (end) June 28	PG Hydro/Gas Seminar (TBD)	PG Hydro/Gas Seminar (TBD)	EQ Flood FSE (Mokelumne Watershed FE and Gas component) Aug 14-18 (T)		Feather River Watershed FE Oct 25		

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Multi-Year Training and Exercise Plan 2023-2025
Emergency Preparedness and Response

Cyber POC: [REDACTED]										Cyber Seminar Oct 4	GridEx VII FE Nov 13-14	
Nuclear POC: [REDACTED]			Team Charlie Full Scope Training Drill March 22	Team Alpha Full Scope Training Drill April 20				Team Bravo Full Scope Training Drill Aug 16	Team Delta Full Scope Training Drill Sept 7			
Transmission POC: [REDACTED]		External Restoration Drills Feb. 9, 16, 23	External Restoration Drills March 2, 9,16							Internal Restoration Drills (TBD)		
Distribution POC: [REDACTED]												
Gas Storage POC: [REDACTED]		McDonald Island Seminar Feb 22	McDonald Island TTX March 29		Los Medanos Seminar May 3						Pleasant Creek TTX Nov 14	
Gas IMT POC: [REDACTED]		Region 4 South Bay / Central Coast Seminar Feb 7	Region 2 North Valley / Sierra Seminar March 1		Los Medanos TTX May 10							
Life Safety (evacuation)			Region 3 Bay Area Seminar March 7					EQ FSE (TBD)				

	Seminar
	Workshop
	Drill
	Tabletop Exercise (TTX)
	Functional Exercise (FE)
	Full Scale Exercise (FSE)

Exercise Schedule 2023-2025



Multi-Year Training and Exercise Plan 2023-2025
Emergency Preparedness and Response

FBU or Hazard	Quarter 1 - 2024			Quarter 2 - 2024			Quarter 3 -2024			Quarter 4 - 2024		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EP&R				All Hazards Seminar		Summer/ Capacity Seminar			Training & Exercise Planning Workshop		Winter Preparedness Seminar	
PSPS		PSPS FSE				PSPS TTX		PSPS Seminar				
Wildfire												
Earthquake												
Gas												
Flood												
PG Hydro												
Cyber									Cyber Seminar	Cyber TTX		



Exercise Schedule 2023-2025												
FBU or Hazard	Quarter 1 - 2024			Quarter 2 - 2024			Quarter 3 -2024			Quarter 4 - 2024		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nuclear												
Transmission												
Distribution												
Gas Storage												
Gas IMT												
Life Safety												



FBU or Hazard	Quarter 1 - 2025			Quarter 2 - 2025			Quarter 3 -2025			Quarter 4 - 2025		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EP&R												
PSPS		<i>PSPS FSE</i>				<i>PSPS TTX</i>		<i>PSPS Seminar</i>				
Cyber												
Wildfire												
Earthquake												
Gas												
Flood												
PG Hydro												



FBU or Hazard	Quarter 1 - 2025			Quarter 2 - 2025			Quarter 3 -2025			Quarter 4 - 2025		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cyber										Cyber Seminar	GridEx VIII FE	
Nuclear												
Transmission												
Distribution												
Life Safety												



Table 8: Multi-Year Training Schedule 2023-2025

Multi-Year Training Calendar 2023-2025												
Hazard/ Threat/FA	Quarter 1-2023			Quarter 2-2023			Quarter 3-2023			Quarter 4-2023		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EP&R	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)	EOC Orientation (As Needed)
EP&R All FAs	G-191 1/10 G-775 1/11-12 ICS-400 1/24-25 G-611-M 1/26	G-191 2/14 G-775 2/15-16 Gas 9123 2/15 ICS-300 2/28-3/2	G-626 3/14-15 G-611-O 3/16	G-191 4/11 G-775 4/12-13 G-626 4/25 G-611-O 4/27	Gas-9123 5/17	ICS-300 6/13-15 G-191 6/27 G-775 6/28-29	G-626 7/11-12 G-611-O 7/13 G-611-P 7/25 G-611-L 7/26 G-611-F 7/27	GAS-9123 8/9	ICS-300 9/12 G-191 9/26 G-775 9/27-28	G-626 10/10-11 G-611-O 10/12 G-611-P 10/24 G-611-L 10/25 G-611-F 10/26	GAS-9123 11/15	

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Multi-Year Training and Exercise Plan 2023-2025
Emergency Preparedness and Response

Multi-Year Training Calendar 2023-2025												
Hazard/ Threat/FA	Quarter 1-2024			Quarter 2-2024			Quarter 3-2024			Quarter 4-2024		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EP&R	<i>Ongoing EOC Orientation Classes, IS-368,</i>											
	ICS 300 1/9-11 G-191 1/23 G-775 1/24-25	G-626 2/13-14 Gas-9123 2/14 G-611-O 2/15 G-611-P 2/27 G-611-L 2/28 G-611-F 2/29		ICS-300 4/9-11 G-191 4/23 G-775 4/24-25	G-626 5/14 Gas-9123 5/15 G-611-O 5/16	G-611-P 6/11 G-611-L 6/12 G-611-F 6/13		ICS-300 7/23-25	G-191 8/13 G-775 8/14-15 Gas-9123 8/14 G-626 8/27-28 G-611-O 8/29	G-611-P 9/10 G-611-L 9/11 G-611-F 9/12	ICS-300 10/15-17 G-191 10/29 G-775 10/30-31	G-626 11/5-6 G-611-O 11/7 Gas-9123 11/13



Multi-Year Training and Exercise Plan 2023-2025
Emergency Preparedness and Response

Multi-Year Training Calendar 2023-2025												
Hazard/ Threat/FA	Quarter 1-2025			Quarter 2-2025			Quarter 3-2025			Quarter 4-2025		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EP&R	<i>Ongoing EOC Orientation Classes, IS-368,</i>											
	ICS 300 1/14-16 G-191 1/28 G-775 1/29-30	G-626 2/11-12 Gas-9123 2/12 G-611-O 2/13 G-611-P 2/25 G-611-L 2/26 G-611-F 2/27	ICS-400 3/11-12 G-611-M 3/25	ICS-300 4/15-17 G-191 4/29 G-775 4/30-5/1	G-626 5/14-15 Gas-9123 5/14 G-611-O 5/16	G-611-P 6/3 G-611-L 6/4 G-611-F 6/5	ICS-300 7/23-15-17 G-191 7/29 G-775 7/30-31	G-626 8/22-13 Gas-9123 8/13 G-611-O 8/14 G-611-P 8/26 G-611-L 8/28 G-611-F 8/29	ICS-300 10/14-16 G-191 10/28 G-775 10/29-30	G-626 11/4-5 G-611-O 11/6 Gas-9123 11/5 G-611-P 11/18 G-611-L 11/19 G-611-F 11/20		



4 ACRONYMS

AAR	After-Action Report
AFN	Access Functional Needs
AHJ	Authority Having Jurisdiction
BIA	Business Impact Analysis
CA	Corrective Action
Cal OES	California Governor's Office of Emergency Services
CERP	Company Emergency Response Plan
CPUC	California Public Utilities Commission
CSTI	California Specialized Training Institute
DCPP	Diablo Canyon Power Plant
EDEC	Electric Distribution Emergency Center
EMI	Emergency Management Institute
EOC	Emergency Operations Center
EP&R	Emergency Preparedness and Response
EQ	Earthquake
ETEC	Electric Transmission Emergency Center
ExPlan	Exercise Plan
FA	Functional Area
FE	Functional Exercise
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FSE	Full Scale Exercise
HSEEP	Homeland Security Exercise and Evaluation Program
ICS	Incident Command System
IL	Instructor Lead
IP	Improvement Plan
IS	Independent Study
MYTEP	Multi-Year Training and Exercise Plan
NIMS	National Incident Management System
NRC	Nuclear Regulatory Commission
NQS	National Qualification System
PG&E	Pacific Gas & Electric
PMO	Project Management Office
PTB	Position Specific Task Book
PSPS	Public Safety Power Shutoff
SEMS	Standardized Emergency Management System
S&E	Strategy and Execution
THIRA	Threat and Hazard Identification & Risk Assessment
WBT	Web Based Training



5 REFERENCES

- California Public Utility Commission. *Public Safety Power Shut Off Phase 2 Final Decision*. Decision 20-05-051. May 28, 2020.
- Homeland Security Exercise and Evaluation Program (HSEEP)*. January 2020.
- National Incident Management System (NIMS)*. October 2017.
- Pacific Gas and Electric. *EMER-01 Emergency Preparedness and Response Policy*. August 24, 2016.
- Pacific Gas and Electric. *EMER-2003S EOC Activation AAR Process Standard*. December 31, 2020.
- Pacific Gas and Electric. Emergency Preparedness and Response. *The Emergency Management Strategy Enterprise Risk Registry*. 2021.
- Pacific Gas and Electric. Emergency Preparedness and Response. *After-Action Report. Kaizen Event*. 2021.
- Pacific Gas and Electric. Emergency Preparedness and Response. *PG&E Core Capabilities*. 2020.
- Pacific Gas and Electric. Emergency Preparedness and Response. *Threat and Hazard Identification & Risk Assessment (THIRA)*. 2021.
- Womack, James P. & Jones, Daniel T. 1996. *Lean Thinking*.