

Chevron Richmond Refinery Emergency Responder Phase Training



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Chevron Richmond Refinery





Chevron Fire Training Mission/Vision

Mission:

- To provide the highest quality of firefighting instruction and training development to all Chevron responders and municipal partners in an environment that promotes safety, teamwork, integrity, courage, knowledge, and professionalism.

Vision:

- That every Chevron responder and municipal partner has the tools needed to perform their work safely and effectively during an industrial emergency at the Chevron Refinery, and better prepare them for industrial incidents in their communities

Chevron Emergency Services



- Largest industrial emergency response organization in the County and State.
- Largest Chevron Domestic Response Organization.
- 32 Full time Chevron fire and security specialists
- 65 Contract Security Officers
- 70+ Volunteer fire fighters from Plant Operations/Maintenance personnel
- On duty 24/7 365 days a year

Phase Training overview



How are we accomplishing this:

- **Phase Training**

- Initial Phase Training 1-3 will be completed with all crews from Richmond Fire Dept. and El Cerrito Fire Dept. on the Chevron site. Additionally we will work with West Contra Costa stations that could likely respond to a Chevron incident.
- Fire Control 4 (Industrial fire training) training events/exercises will be offered either at Chevron fire training facility, Maritime Safety and Security Center (MSSC) or Texas A&M Fire Training facility - College Station, Texas (TEEX)
- Phase 4 (Industrial fire training) training events/exercises will be offered both at Chevron and/or at Texas A&M Fire Training facility - College Station, Texas (TEEX)



Phase Training overview



How are we accomplishing this:

■ Frequency

- Initial Phase 1-3 Training classes are offered annually as new hires come on board with a minimum class size of 6 persons.
- Representatives from each municipal agency participate in the FC4/Phase 4 training events/exercises whether at Chevron, MSSC or TEEEX. (Note – annual training requirements may also be met by participating in the equipment deployment drills for the Petro-Chemical Mutual Aid Organization PMAO)
- Discussions will be held annually with each agency to understand their training frequency preference



Phase 1 (Site Layout/Process/Staging and CFD organization)



Overview of Locations and Operations

.Chevron Complex layout/s (RIC841, RIC155, RIC940, RIC981, RIC100)

- Geographic foot print of the facility/s and its neighbors
- Follow the product, RLW – SRU and Basic Hazard Review
- Process Plant Boundaries and Access Concerns
- Railcar and Semi-Truck Loading/Off Loading
- Facility workforce numbers

Chevron Fire Dept Organizational Review

- Firehouse Facilities
- Organizational Chart (Paid/FB)
- Apparatus and Equipment Overview
- Basic training requirements and annual training requirement

Additional

- Refinery Radio System Review, Dispatch Office Tour, Common Ops Radio Plan (Juliet 1)
- Level 1 and level 2 Staging Area Review
- Pre Designated Heli-spot Review
- Refinery Driving Tour

Richmond Refinery – Example of training material



Richmond Refinery – Example of training material

Products are secured and moved inside the Refinery and Process areas using: over 5,000 miles of pipelines, 80 miles of paved roads, 12 miles of railroad tracks, 20 miles of fence line (100,000 feet of fence) and 3,000+ acres of property



Richmond Refinery – Example of training material

Process 260,000+ barrels of oil each day / 100+ storage tanks – Fuel to the Pacific Northwest, fuel to the bay area airports, National lubrication products Primary west of the Mississippi, Military contract, Transportation fuels



Phase 2 (Strategy/Tactics/Pre-incident planning)

Pre-Incident Scenario Analysis Review

- LPG Sphere Area - Pre Incident Scenario Analysis Review
- Likely equipment to be used review:
 - Oasis Valve
 - Blitzfire Monitor
 - Hemisphere Monitors
 - Fire Apparatus Master Stream
 - Refinery firewater system

Field Exercise

- LPG area tour
- Review of LPG area fixed fire protection equipment
- Leak simulation and equipment deployment, responding from staging area
- Common communications exercise on Juliet 1
- Passport accountability system use

Phase 3 (Command/Communication/Field exercises)



Command Structure Field Exercise

- Call to RMD for resource assignment (Full Structure Assignment with Hazmat)
- Standup Staging
- Common Radio Communications (Juliet 1)
- Standup Command Post
- Escort incoming agencies to ICP utilizing Refinery Security Force
- Formally establish Unified Command
 - ICP briefing process (review of ICS Form 201-205)
 - Activation of Passport Accountability System
 - Standup of Decontamination/Demobilization at our drill grounds

FC4 Classroom/Drill Ground Exercise

- Classroom review of FC4
- Field exercises – FC4 strategies and tactics



Phase 4 (Fire Control/Firefighting and Command)

Trip to TEEEX for 4 days of FC4 (preferred)

Attendance Prerequisites:

Must - Provide proof of NFPA 1081 Certification Class or CA OSFM Firefighter 1 Certification

Must - Completion of Chevron Phase Training 1-3

May - Attend FC4 Refresher training just prior to TEEEX trip

TEEEX Curriculum

- Process plant - pressurized flammable liquid flammable gas firefighting
- Tank seal firefighting
- Tank truck loading firefighting
- Master stream and foam appliances/application
- Handheld lines and extinguisher strategies
- Crude-by-rail derailment firefighting
- Shipboard firefighting

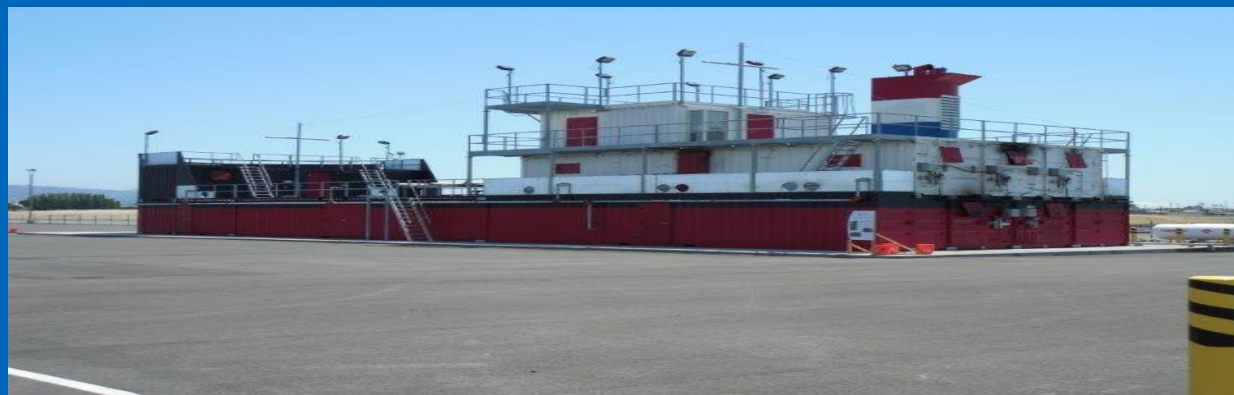
Training Facilities Chevron Richmond, Ca



Training facilities – Maritime Safety and Security Center Richmond, Ca



Shipboard fire
training prop
140x40



Maritime Safety and Security Center Opening
CalMaritime



Training facilities – Texas A&M College Station, Tx





Advanced Training Still Under Development

Battalion Chief Specific Training

- More frequent review of Pre-Incident Scenarios Analysis with CFD Chief Officers
- Review of Chevron's Leak Response Protocol
- Review installations of ground level and fence line environmental monitoring systems and explain our fire department response
- Chevron Emergency Operations Center (EOC) standup procedures
- Review of the Chevron's Management On-Call System for incident mitigation along with a brief explanation of Chevron's business continuity processes
- Community Alert System review

- Mutual Aid Response video

HALO Law Enforcement small arms range ER off site training facility



Questions



Ask Questions

Build Relationships

Get advice / Offer advice

Attend training / Host training

Join committees and organizations

Sponsor training

Hold drills and exercises

Listen, pay attention, be vigilant

Make improvements

Share