



AORSI Instructor Guide

Course Title: Emergency & Fire Response (EM)

Duration: 8 Hours (with field drills)

Audience: Off-road operators, fire/rescue personnel, and agency coordinators

Course Overview

This course focuses on the use of off-road vehicles in emergency and fire response, including specialized modifications, operating protocols, and inter-agency coordination. Students gain hands-on knowledge in adapting off-road vehicles for rescue and firefighting operations, while understanding the broader framework of emergency management systems.

Learning Objectives (Instructor Notes)

- Recognize the role of off-road vehicles in fire and disaster response. (Tip: Use real-world examples).
- Operate within emergency response protocols and ICS. (Tip: Practice radio drills).
- Identify vehicle modifications suited for fire/emergency roles. (Tip: Provide visual aids of modified units).
- Coordinate with fire and rescue personnel safely. (Tip: Discuss joint training exercises).

Module 1: Off-Road Vehicles in Firefighting & Emergency Response (2 hours)

- Explain scenarios where off-road vehicles are critical (wildfires, floods, disasters).
- Course Design Suggestion: Tabletop simulation with deployment role-play.
- Exercise: Draft a flowchart showing dispatch decisions.
- Reflection: Advantages and limitations vs. traditional vehicles.

Module 2: Specialized Modifications & Equipment (2 hours)

- Discuss modifications: skid units, radios, lighting, PPE storage, reinforced suspension.
- Course Design Suggestion: Lab activity designing a modified unit; invite fire dept for demo.
- Exercise: List five modifications for wildfire suppression and explain importance.
- Reflection: How should agencies decide modifications under budget limits?

Module 3: Incident Command & Communications Protocols (2 hours)

- Explain ICS roles, radio protocols, reporting chains.
- Course Design Suggestion: Classroom simulation and field drill with communication consequences.
- Exercise: Write a sample radio log entry for a fireline breach.
- Reflection: Why is strict adherence to protocols vital?

Module 4: Safety & Coordination with Agencies (2 hours)

- Highlight multi-agency training, PPE, risk assessments, liability considerations.
- Course Design Suggestion: Tabletop wildfire suppression with multiple responder roles.
- Exercise: Develop a safety checklist for off-road operators alongside fire crews.
- Reflection: How does inter-agency coordination improve outcomes?

Final Assessment

Task: Participate in a wildfire simulation deploying off-road vehicles, coordinating with agencies, and operating under ICS protocols. Submit a written exam addressing:

- What roles can off-road vehicles serve in wildfire suppression?
- Which vehicle modifications are most essential for patient transport?
- How does ICS improve safety and coordination in emergencies?
- Why are communication protocols vital in multi-agency operations?
- What joint training strategies can improve collaboration with fire/rescue agencies?

Instructor Preparation Checklist

- Prepare maps and examples of past wildfire/flood deployments.
- Gather visuals of modified vehicles (skid units, radios, lighting).
- Organize tabletop and field simulation exercises.
- Coordinate with local fire/rescue for guest demonstrations.

Suggested Timing

- Introduction – 15 min
- Module 1 – 120 min
- Module 2 – 120 min
- Module 3 – 120 min
- Module 4 – 120 min
- Final Assessment – 45 min
- Wrap-up & Questions – 20 min