



AORSI Instructor Guide

Course Title: Safety Gear & Protective Equipment (SG)

Duration: 3 Hours (can be delivered online or in-person)

Audience: Off-road riders, operators, and instructors

Course Overview

This course emphasizes the role of personal protective equipment (PPE) and vehicle safety gear in reducing injury risk in off-road operations. Students will explore the differences between regulatory minimums and best practices, learning how the right equipment choices directly improve safety outcomes.

Learning Objectives (Instructor Notes)

- Identify essential rider PPE and its purpose. (Tip: Demonstrate helmet fit and glove inspection).
- Compare regulatory requirements vs. best practice equipment. (Tip: Use state vs AORSI guidelines).
- Understand correct helmet fitting and harness systems. (Tip: Provide live demos and adjustments).
- Recommend appropriate gear for various off-road environments. (Tip: Encourage scenario-based discussions).

Module 1: Helmets, Goggles, Gloves, Boots, and Suits (45 min)

- Teach protective role of helmets, goggles, gloves, boots, suits.
- Course Design Suggestion: Provide PPE samples for inspection.
- Exercise: Create PPE checklist for desert trip.
- Reflection: Why is proper fit as important as protective rating?

Module 2: Seatbelts, Harnesses, and Roll Protection Systems (45 min)

- Teach harness types, seatbelts, roll cages/bars.
- Course Design Suggestion: Use rollover simulation videos.
- Exercise: Write three differences between seatbelt and multi-point harness.
- Reflection: Why can improperly used gear be more dangerous than none?

Module 3: Communication & Emergency Equipment (45 min)

- Teach radios, sat comms, first aid kits, fire extinguishers.
- Course Design Suggestion: Students assemble custom emergency kits.
- Exercise: List five essential emergency items for remote trip.
- Reflection: How does reliable communication improve group safety?

Module 4: Regulatory vs Recommended Gear (45 min)

- Compare local PPE laws vs industry best practices.
- Course Design Suggestion: Debate requiring best-practice gear by law.
- Exercise: Research PPE requirements in your state vs AORSI.
- Reflection: Why should operators exceed legal minimums in gear choice?

Final Assessment

Task: Demonstrate proper fitting of helmet, goggles, gloves, boots, and a harness. Students complete short quiz on PPE, safety gear, and regulatory vs best practices. Sample exam questions:

- What are the key elements of a properly fitted helmet?
- List three advantages of a multi-point harness over a seatbelt.
- What emergency equipment should always be carried on remote trips?
- How do local PPE regulations differ from AORSI recommendations?
- Why is PPE fit as important as equipment rating?

Instructor Preparation Checklist

- Prepare PPE samples in various conditions (new, worn).
- Provide harness demonstration equipment.
- Gather emergency kits and radios for inspection.
- Collect state PPE requirements vs AORSI guidelines.

Suggested Timing

- Introduction – 10 min
- Module 1 – 45 min
- Module 2 – 45 min
- Module 3 – 45 min
- Module 4 – 45 min
- Final Assessment – 30 min
- Wrap-up & Questions – 10 min