



AORSI Instructor Guide

Course Title: Introduction to Off-Road Vehicles (INT)

Duration: 4 Hours (online or in-person)

Audience: Entry-level off-road operators, enthusiasts, and instructors

Course Overview

This course introduces the foundation of off-road vehicle knowledge. Participants learn about vehicle types, terminology, and how off-road mobility has evolved into modern recreation and industry use. By understanding this history and terminology, students gain context for deeper technical and safety training in future courses. ■211†AORSI-100-INT Workbook†L1-L9■

Learning Objectives (Instructor Notes)

- Identify different categories of off-road vehicles (ATV, UTV, OHV, ROV, etc.).
- Understand core terminology used in the industry and by regulators.
- Trace the evolution of off-road vehicles from military to recreational use.

Module 1: History of Off-Road Vehicles (1 hr)

- Teach military origins of off-road vehicles and their evolution into recreational and industry use.
- Course Design Suggestion: Assign students to research one major off-road innovation and present its legacy.
- Exercise: Write a short summary comparing military vs recreational applications.
- Reflection: Why did military needs drive so much innovation? ■211†AORSI-100-INT Workbook†L11-L20■

Module 2: Common Vehicle Types & Characteristics (1 hr)

- Teach ATVs, UTVs, OHVs, ROVs, dirt bikes, and specialized rigs.
- Course Design Suggestion: Create a comparison chart of vehicle categories and uses.
- Exercise: Match vehicle types to real-world scenarios.
- Reflection: Why classify vehicles by industry and regulatory categories? ■211†AORSI-100-INT Workbook†L22-L34■

Module 3: Core Components – Engines, Frames, Drivetrains (1 hr)

- Teach core components across off-road vehicles and their interaction.
- Course Design Suggestion: Label diagrams of an ATV or UTV drivetrain system.
- Exercise: List three drivetrain components and describe their function.
- Reflection: Why is understanding components essential for riders and instructors? ■211†AORSI-100-INT Workbook†L36-L48■

Module 4: Standard Terminology in Safety & Regulations (1 hr)

- Teach overlapping terms like OHV, ROV, ATV, and their regulatory/legal distinctions.
- Course Design Suggestion: Students draft glossary entries for assigned terms.
- Exercise: Match acronyms to full forms and definitions.
- Reflection: How does standardized terminology improve safety and compliance? ■211†AORSI-100-INT Workbook†L50-L64■

Instructor–Student Alignment Chart

This chart aligns instructor activities with student workbook exercises for easy reference. ■211†AORSI-100-INT Workbook†L11-L64■

Module	Instructor Focus	Student Workbook Activity
1: History	Show historical photos/videos of early vehicles	Summarize military vs recreational uses■211†AORSI-100-INT Workbook
2: Vehicle Types	Provide live/video demonstrations of types	Match types with scenarios■211†AORSI-100-INT Workbook
3: Core Components	Show diagrams/real parts of drivetrain	List drivetrain components and functions■211†AORSI-100-INT Workbook
4: Terminology	Provide glossary and assign terms	Match acronyms to definitions■211†AORSI-100-INT Workbook

Final Assessment

Task: Complete a 25-question multiple choice quiz covering history, types, components, and terminology. Sample questions include: ■211†AORSI-100-INT Workbook†L66-L83■

- Which World War II vehicle served as the model for modern Jeeps?
- What are two key differences between ATVs and UTVs?
- Which drivetrain component delivers torque to the wheels?
- What does OHV stand for in regulatory use?
- Why is terminology consistency important in off-road education?

Instructor Preparation Checklist

- Provide historical photos/videos of military vehicles.
- Collect comparison data on vehicle types.
- Bring labeled diagrams or real drivetrain parts.
- Prepare glossary entries for common acronyms.

Suggested Timing

- Introduction – 10 min
- Module 1 – 60 min
- Module 2 – 60 min
- Module 3 – 60 min
- Module 4 – 60 min
- Final Assessment – 30 min
- Wrap-up & Questions – 10 min