



**Lesson 1: Goals & Objectives of this Lesson**

- Safe Productivity.
- Introduction.
- Goals and Objectives.
- What is a professional?

**Lesson 2: Components & Control Identification**

- Goals and Objectives of this Lesson.
- Operator's Manual.
- Basic Machine Parts.
- ROPS & FOPS.
- Operator's Station.
- Main Frame.
- Buckets.
- Undercarriage.
- Track Shoes.
- Hydrostatic Transmissions.
- Engine.
- Turbocharger.
- Instrument Panels.
- Controls.
- Brakes and Braking System.
- Check Your Knowledge.

**Lesson 3: Safety & Warning Symbols**

- Goals and Objectives of this Lesson.
- Basics of Safety.
- Frequent Causes of Accidents.
- Safe Environment.
- Medication Warning.
- Personal Protective Equipment.
- Operator's Station Safety.
- Fire Prevention.
- Safety Warning Decals.
- Refueling Safety.
- Pinch Points and Moving Parts.
- No Riders.
- Hand Signals.
- Operator Fatigue.
- Responsibility.
- Check Your Knowledge.



**Lesson 4: Pre-Start Procedures**

- Goals and Objectives of this Lesson.
- Pre-Start Procedures.
- Checklist.
- Operator's Manual.
- Checks.
- Pre-Start Inspection.
- Pre-Start Procedures.
- Hydraulic Warning.
- Fluid Levels.
- Lubrication System.
- Tracks.
- Electric Cables and Wiring.
- Lights.
- Checks.
- Operator's Safety.
- Housekeeping.
- Fire Prevention.
- Safety Decals.
- Lockout / Tag-Out.
- Proper Mount / Dismount.
- Seat / Seat Belt.
- Battery Safety.
- Check Your Knowledge.

**Lesson 5: Starting Procedures**

- Goals and Objectives of this Lesson.
- Machine Start-Up.
- Master Switch.
- Checks.
- Starting the Engine in Cold Weather.
- Jump Starting.
- Wear Characteristics for Major Components.
- Check Your Knowledge.

**Lesson 6: After Starting Checks**

- Goals and Objectives of this Lesson.
- After Starting Checks.
- Check Your Knowledge.



**Lesson 7: Operation & Safety**

- Goals and Objectives of this Lesson.
- Planning Ahead.
- Inspecting the Jobsite.
- Planning the Job.
- General Precautions.
- Traveling.
- Using a Spotter.
- Adverse Weather Conditions.
- Backing up.
- Front / Rear Visibility.
- No Riders!
- Working in Congested Areas.
- Equipment Uses.
- Overhead Utilities.
- If an Electrical Contact Occurs.
- Underground Utilities.
- Master Switch.
- Tips to Live By.
- Fatal Accident Description.
- Check Your Knowledge.

**Lesson 8: Machine Shutdown**

- Goals and Objectives of this Lesson.
- Parking.
- Proper Shutdown.
- Preventing Vandalism.
- Check Your Knowledge.

**Lesson 9: Advantages & Limitations**

- Goals & Objectives of this Lesson.
- Knowing Your Machine.
- Operator's Manual.
- Machine Dimensions.
- Capacities & Limitations.
- Check Your Knowledge.

**Lesson 10: Attachments**

- Goals and Objectives of this Lesson.
- Attachments.
- Weight Distribution.
- Typical Attachments.
- Ripper.
- Check Your Knowledge.



**Lesson 11: Load Securement & Tie-Down**

- Goals and Objectives of this Lesson.
- Transporting on a Trailer.
- Working Load Limit.
- Ratchet Binders.
- During Transport.
- Check Your Knowledge.

**Lesson 12: Preventive Maintenance**

- Goals and Objectives of this Lesson.
- Instruction to Preventive Maintenance.
- Benefits of a Good Program.
- Setting up the Program.
- Keeping Records.
- Component Failure Modes / Warning Signs.
- Engine Failure.
- Lubrication.
- Transmission.
- Final Drives.
- Spot Check.
- Pre-Service.
- Equipment Inspection Form.
- Check Your Knowledge.