

# Tractor Operations & Maintenance CDE

## 2024-2025 Description Sheet

Revised 7/25/2024

### Event Format

1. **Written Exam – 20 MC questions over information from the references below**
2. **Problem Solving – 10 problem solving questions/activities relating to tractor servicing, safe operation, troubleshooting, care, and maintenance.**
3. **Tractor Operations**
  - **Explain pre-warm up procedure**
    - **Engine oil level**
    - **Hydraulic fluid level**
    - **Coolant level**
    - **Air in tires**
    - **Belt tension**
    - **Fuel level**
    - **Wheel lugs**
    - **Check battery**
    - **PTO Shields**
    - **ROPS**
    - **Brake Lock**
    - **Seat Belt**
    - **Safety Starting Switch**
  - **Operate tractor and implement through driving course (≤ 300 seconds for full time points)**

### Test References:

- **Fundamentals of Machine Operation-Tractors – 5<sup>th</sup> edition – ISBN # 0-86691-402-1**
  - **Chapters 1, 3, 5, 7, & 9**
- **[JD 5045E manual](#)**  
Sections to study:
  - **Safety**
  - **Safety signs**
  - **Driving the tractor**
- **[JD 4044M Manual](#)**  
Sections to study:
  - **Engine Maintenance**
  - **Ballast**