

# High School Lawnmower Operations & Maintenance CDE

## 2024-2025 Description Sheet

Revised 7/26/2024

### Event Format

1. **Written Exam – 20 MC questions over information from the references below**
2. **Problem Solving – 10 problem solving activities relating to lawnmower servicing, safe operation, care and maintenance.**
3. **Lawnmower Operations**
  - **Must wear safety glasses labeled with minimum of ANSI Z87.1**
  - **Must wear hearing protection with minimum NRR of 20**
  - **Explain pre-warm up procedure**
    - **Engine oil level**
    - **Air filter**
    - **Hydraulic fluid**
    - **Engine cooling system**
    - **Cutting blades**
    - **Air in tires**
    - **Belt tension and wear**
    - **Fuel level**
    - **Wheel lugs**
    - **Battery**
    - **Belt shields**
    - **ROPS**
    - **Brake lock**
    - **Seat belt**
    - **Safety starting switch**
  - **Operate lawnmower through driving course (≤ 150 seconds for full time points)**  
**(Note: time ends when mower is shut off in shed)**

### Test References:

- **Small Engines – 4<sup>th</sup> edition – ISBN # 978-0-8269-0033-3**
  - **Chapters 1, 3, 5, 7, 9 & 11**
- **Turfgrass Science & Management – 4<sup>th</sup> edition – ISBN # 978-1-4180-1330-1**
  - **Chapters 3, 4, & 11**