

## 1. Time per Yard

- **Average time per yard:** 15–20 minutes = **0.25–0.33 hours** per yard.
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## 2. Total Working Hours in a Shift

- An 8-hour shift typically includes **6.5–7 hours** of productive work after breaks, travel, and setup time are factored in. Assume about **7 hours of actual work** for calculations.
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## 3. Yards per Shift

- **Lower range (20 minutes per yard):**  
 $7 \text{ hours} \div 0.33 \text{ hours/yard} = 21 \text{ yards}$
  - **Upper range (15 minutes per yard):**  
 $7 \text{ hours} \div 0.25 \text{ hours/yard} = 28 \text{ yards}$
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## 4. Accounting for Travel Time Between Yards

Travel time is critical, so let's assume **5–10 minutes of travel time** between each yard:

- **5 minutes of travel** =  $5 \text{ min} \div 60 = 0.083 \text{ hours}$
- Combined with 15–20 minutes per yard = 20–30 minutes total per yard

Adjusting for travel time:

- $7 \text{ hours} \div 0.5 \text{ hours/yard} = 14 \text{ yards}$
- $7 \text{ hours} \div 0.33 \text{ hours/yard} = 21 \text{ yards}$