

LESSON 5: Tractor-Powered Implements

- A. Enhanced safety and productivity through mechanization
 - 1. Increased productivity
 - 2. Fewer workers exposed to hazards
 - 3. New technology makes farming safer
- B. Hazards when implements are attached to tractor
 - 1. Changed center of gravity
 - 2. Added weight
 - 3. Less overhead clearance
 - 4. Limited visibility
 - 5. Increased width
- C. Hitching implements to the tractor
 - 1. Drawbar
 - 2. Three-point hitch
 - 3. Front mounted
 - 4. Frame mounted
- D. Hitching to the drawbar
 - 1. No hitching above drawbar
 - 2. Safety hitch pins and chains
 - 3. Jack stands
 - 4. Drawbar adjustment
- E. Three-point hitch mounting
 - 1. Categories
 - 2. Safe hitching
- F. PTO drivelines – operation and safety
 - 1. Function
 - 2. Types/categories – 540 and 1000 rpm
 - 3. Hazards of over speeding
 - 4. Components
 - 5. Shielding/guarding
 - 6. Connecting PTO driveline to tractor
- G. Hydraulic systems – operation and safety
 - 1. Functions
 - 2. Components
 - 3. Hydraulic-related hazards
 - 4. Locating a hydraulic leak safely
 - 5. Use of safety locks

