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Safety in the Course of Mechanized Field Work

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ANNOTATION: In this article, labor protection measures, safety rules for the safety of machine operators and workers during mechanized field work on the basis of the Labor Code of the Republic of Uzbekistan.

KEYWORDS: Labor Code, melon crops, tractor, safety, technical discipline, injury, accident, instruction, unit, trailed machine, mechanism, spark extinguisher.

The protection of human labor in the countries of the world is one of the main and main issues of the United Nations General Assembly. Accordingly, in our state, the protection of the health of workers and employees at work, i.e. the prevention of accidents such as occupational diseases and accidental injuries, is enshrined in law by the state. The Constitution of the Republic of Uzbekistan guarantees citizens the right to work, study, learn, create, rest, health care, treatment and other rights that are acceptable and beneficial to society.

Another law of the Republic is the Labor Code of the Republic of Uzbekistan, in which all issues related to labor protection are enshrined in law. This law is comprehensive and includes the conclusion of collective and individual labor contracts (Articles 35-56 and 77-113), labor and rest periods (Articles 114-125 and 126-152), wage and payment rules (Articles 153-164 and 165-173), labor discipline and its protection (Articles 174-184 and 211-223), women's and youth labor protection (Articles 224-238 and 239-257), social insurance of workers (Articles 282 - 294) and other similar procedures and rules to ensure the peace and security of human life.

Safety is important in the health of workers, and it is a technical discipline that identifies the causes of accidents that can occur in the workplace of machines and identifies ways to prevent accidents on the basis of the study of production facilities and methods of work.

Accident prevention measures may include:

- a) technical measures: improvement of machinery, equipment, devices and instruments; design and study of enclosures, etc. ;
- b) organizational measures: creation of rational technological and production processes, training in safe working methods, control over observance of safety rules.

Safety is inextricably linked with firefighting measures. When these measures are followed, the risk of fire is reduced, and in the event of a fire, it is possible to save people, animals, equipment, machines, crops, etc., as well as property. Every agricultural worker should know and follow the safety rules to prevent industrial injuries and occupational diseases. Accidental injury of a worker during the performance of a production task is called an industrial injury. In this case, the worker may temporarily or completely lose the ability to work. Accidents can occur due to reasons such as the worker not being trained and instructed in the workplace, extended working hours, working on faulty machines.

When performing field work with the help of machines and mechanisms, it is necessary to know and follow the rules of safe operation of agricultural machinery and equipment. Therefore, driving of agricultural machines, aggregates and self-propelled machines is allowed only to persons over 18 years of age and having a license to operate these machines. When performing field work with the help of machines and mechanisms, it is necessary to know and follow the rules of safe operation of agricultural machinery and equipment. Therefore, driving of agricultural machines, aggregates and self-propelled machines is allowed only to persons over 18 years of age and having a license to operate these machines. The immediate supervisor conducts on-the-job instruction with the mechanics before starting work. It fully explains the hazards and rules of safe operation that may occur while working on this machine, the rules and place of refueling the machine, the signals set during operation, the time and place of rest, the characteristics of night work. In the event of a change in the type of work, the mechanic will be instructed in an unscheduled manner. The task of this instruction is to



explain the features of doing the same job and to demonstrate safe working methods. In addition, the immediate supervisor should re-instruct employees at appropriate times to remind them of safety rules and fire precautions. The use of technically sound agricultural machinery and tractor units is allowed during mechanized mowing. Every agricultural machine and tractor should have front and rear lights for night work, and a two-way signal for the tractor operator to communicate with the auxiliary workers serving on the unit while the unit is moving. Agricultural machinery and tractors must have a rear-view mirror. The mechanic uses this window to monitor the people working on the car and the unit behind it. During operation, the tractor must have a set of tools, a first aid kit, instructions, a hand towel, a water fly and a fire extinguisher. The tractor driver must wear gloves and goggles.

At the beginning of each shift, the mechanic should carefully check the condition of the unit, the strength of the joints. Particular attention is paid to the condition of the steering, clutch, brakes, trailer, lighting and fuel system equipment. It is forbidden to work on a machine-tractor unit with unadjusted or technical defects, as well as leaking fuel, water, oil. Special attention should be paid to fire safety measures when refueling machine-tractor units. At the entrance to the refueling point, the exhaust pipe must face upwards to where the fuel is located; the fuel tank must be pumped through a copper mesh funnel; it is necessary to unscrew the plug of the barrels with a special key. When refueling machine-tractor units at night, use an air-insulated electric lamp or electric lantern.

On cold days it is necessary to heat the lubricants in special containers.

It is forbidden to light matches, light fires and smoke during the inspection of fuel containers. If the fuel catches fire, the fire should be extinguished using sand, earth, or a fire extinguisher. In such cases, the use of water is prohibited.

When connecting the machine-tractor units to the trailer, the engine must be used at the minimum speed. The tractor must stop the tractor at the first signal from the driver, so when walking backwards, his foot must always be on the gear clutch pedal. It is forbidden for the tractor to back up with the trailer, to jump from the moving unit, to sit on the wings, to stand on the stairs, to adjust and correct the unit, to move from the tractor to the trailer or vice versa.

When walking up and down the hills, drive in I or II gear. When crossing the railway, especially in unprotected areas, the tractor driver must stop the machine-tractor units, determine whether the train is coming or not, and then drive at first speed. Defects detected during operation will be rectified after the engine has stopped. During operation, it is forbidden to stand in front of or behind the belt drive pulley, as well as to put or remove the belt on the rotating pulley. All extensions must be carefully enclosed with a sheath.

The gas station and personnel, dials, cleaners, dryers must have the necessary means for firefighting. In addition, the following safety rules must be observed when using machine-tractor units:

1. Only persons who have a good knowledge of the rules of commissioning and operation of the machine-tractor unit, can eliminate its shortcomings and have the right to drive these units, are allowed to work on the machine-tractor units. It is strictly forbidden to hand over machine-tractor units to outsiders for use.

2. Do not use machine-tractor units with technical defects.

3. Before driving the machine-tractor units it is necessary to sound the alarm.

4. Lubrication of machine-tractor units, tightening of bolts and nuts or cleaning of contaminated work surfaces shall be carried out only after stopping of machine-tractor unit. It is forbidden to carry out repair or adjustment work under the plow attached to the tractor.

5. When the cultivator machine-tractor unit is in the idle position, the unit should be turned smoothly. It is not allowed to turn the units if the chain of the mounting system is loose.

6. During maintenance of the machine-tractor unit it is necessary to lower working bodies or to put a base under them.

7. When the machine-tractor unit is stopped, the cultivator should be lowered to the support wheel.

In addition to the above-mentioned safety rules, it is also important to strictly follow the rules of fire protection when working on the tractor and its maintenance. To refuel the tractor, the outlet pipe to the supply point must be turned in the opposite direction to the point. Repair of the tractor is allowed only if the engine is switched off. Smoking or the use of open flames during refueling, inspection of fuel tanks is prohibited.



In short, not only harvesting melons, but also in order to prevent many possible injuries during operation of the machine-tractor and its mechanisms in the process of preparing it, of course, instruction and adherence to safety rules will give good results.

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