

# CONSTRUCTION INJURY NARRATIVE



#### Teen Worker Loses Legs to Trencher

#### **INCIDENT FACTS**

**REPORT #: 71-256-2024s** 

REPORT DATE: July 18, 2024

**INCIDENT DATE:** June 30, 2023

**WORKER: 16 years old** 

**INDUSTRY:** Highway, Street, and Bridge

Construction

**OCCUPATION:** Construction Laborer

**SCENE:** Residential construction site

**EVENT TYPE:** Caught in / amputation











A 16-year-old construction worker had both legs amputated when they were caught in a trencher. He was a high school student in a work-based learning program that allowed him to earn credit and gain job experience. He worked for his employer, a large general contractor, around nine months.









The teen was using a walk-behind mini skid steer with a hydraulic rotary trencher attachment. The day before the incident, the teen received a brief demonstration of the trencher by a supervisor. He then used the trencher for 2 to 3 hours. The next day, a foreman assigned him to use the trencher unsupervised to dig a channel for fence posts. After a half hour, he stopped to check the trench depth. He walked in front of the trencher without shutting it off. As he stood on the 8-inch trench, the sidewall collapsed and his legs were pulled into and severed by the trencher's roller chain.









While lying on the ground badly injured, the teen first tried to phone his mother and then his supervisor, who was off-site, but could not reach them. The teen sent photos of his injured legs to his supervisor, who saw the photos and called the workers at the jobsite. The workers rushed to aid the teen, called 911, and applied tourniquets to each leg. First responders arrived and had a critical care helicopter airlift the teen to the hospital where his life was saved.









#### Following the incident, investigators found:

- The employer had a student learner exemption permitting minors to do some work that was otherwise prohibited for workers under 18. The skid steer and trencher attachment were not part of the exemption.
- The teen had no proper training or experience that qualified him to operate the trencher and was using it alone and out of sight from co-workers and with no supervisors onsite.
- Requirements and restrictions for minors were not communicated from management to supervisors











**Photo 1.** Mini skid steer with trencher attachment at incident site.











**Photo 2**. Trencher at incident site. Arrow shows trench that was being dug.











Photo 3. Trencher attachment.











Photo 4. Close up of trencher roller chain and digging teeth.









## Requirements

#### **Employers must:**

- Unless granted a variance by the director of the Dept. of Labor & Industries, not allow minors participating in a bona fide work-based learning program certified and monitored by the office of the superintendent of public instruction or the minor employee's school district to perform the prohibited and hazardous employments outlined in <a href="WAC 296-125-0303">WAC 296-125-0303</a>, except those exempted in subsections (5), (8), (9), (11), (13), (15), (16), and (23).
- Permit only those employees qualified by training or experience to operate equipment and machinery. See WAC 296-155-035(2).

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#### Recommendations

FACE investigators concluded, that to help prevent similar occurrences, employers should:

Develop an accident prevention program (APP) policy that
covers relevant employment restrictions for minors in <u>WAC 296-125-0303</u> and exemptions listed in the employer's approved
variance application for minors in work-based learning
programs. Communicate the policy at new worker orientation
trainings, monthly safety meetings, and daily supervisor-led
crew meetings before work begins.









#### Recommendations

- Ensure supervisors prohibit minors in work-based learning programs from hazardous work without direct supervision and/or alone, from restricted job tasks, and from restricted tools, equipment, or machines.
- Provide minors in work-based learning programs ample training, including refresher training, for each type of tool, equipment, and machine. Evaluate their knowledge and skills before allowing them to work.









#### Resources

Teen and Young Worker Safety & Health

Washington State Dept. of Labor & Industries









This narrative was developed to alert employers and workers of a tragic incident in Washington State and is based on preliminary data ONLY and does not represent final determinations regarding the nature of the incident or conclusions regarding the cause of the injury.

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