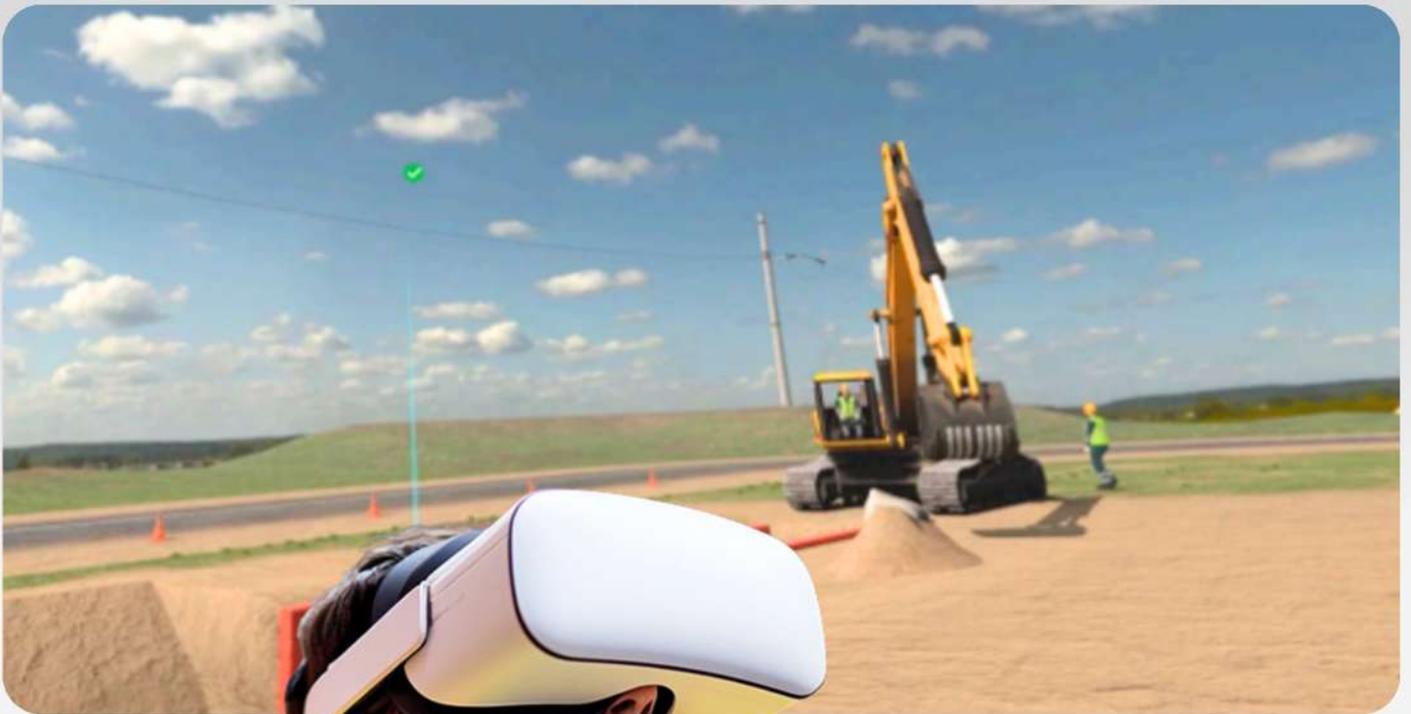




NEXT WORLD

# Trenching and Excavation Safety

## VR Module Overview



VR module created by 



Learning



Training



Certificate

# Experience Overview

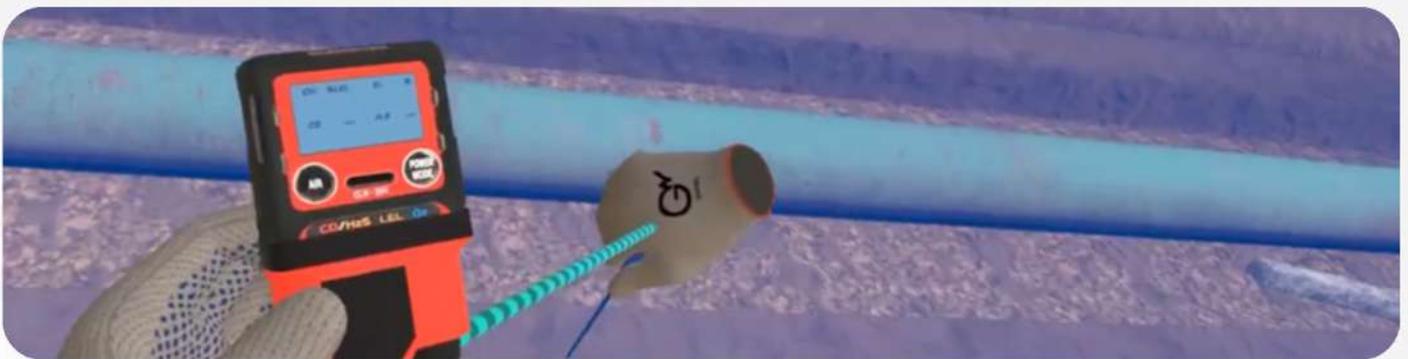
What's included in VR Trenching and Excavation Safety



**Experience the profession of the safety inspector, who first observes the workers' readiness to perform the task in the trench, the condition of the trench and its risks, and checks the performance of the excavator and the newly installed shielding system.**

The risks to be observed and eliminated are: traffic accidents (any worker or operator can be hit by a car), electric shock, wall collapse, falling objects, fall from height, excavator digging risks, and collapse. You will find and change all dangerous conditions by going around and down the trench.

After the trenching and excavation safety VR training, you'll have a perfect understanding of working in a large trench with a whole team of workers using heavy equipment.



## Available in 10 Languages

- Arabic
- Chinese
- English
- French
- German
- Hindi
- Polish
- Portuguese
- Italian
- Spanish

# User Control

Empowering users with hands-on precision in every simulation.

**Menu Button:**  
Selecting the  
Mode or exit



Left Hand

Right Hand

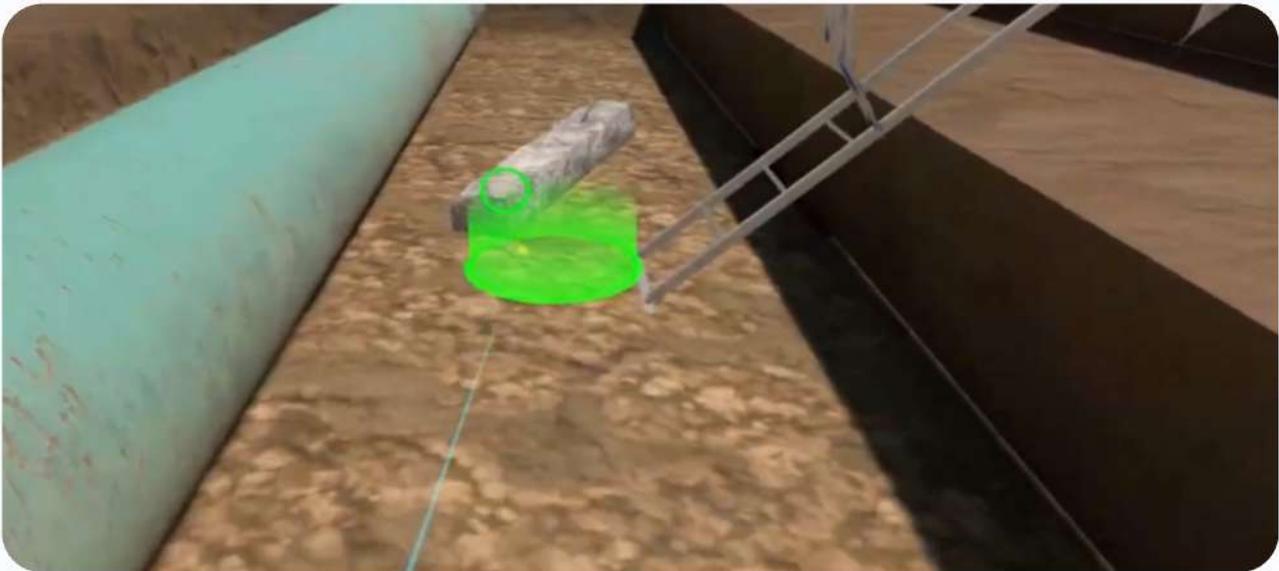
# Module Walkthrough

In the Learning Mode you'll be guided through the following steps. In the Training and Exam modes you'll be on your own completing the task. To exit the task press the Menu button.

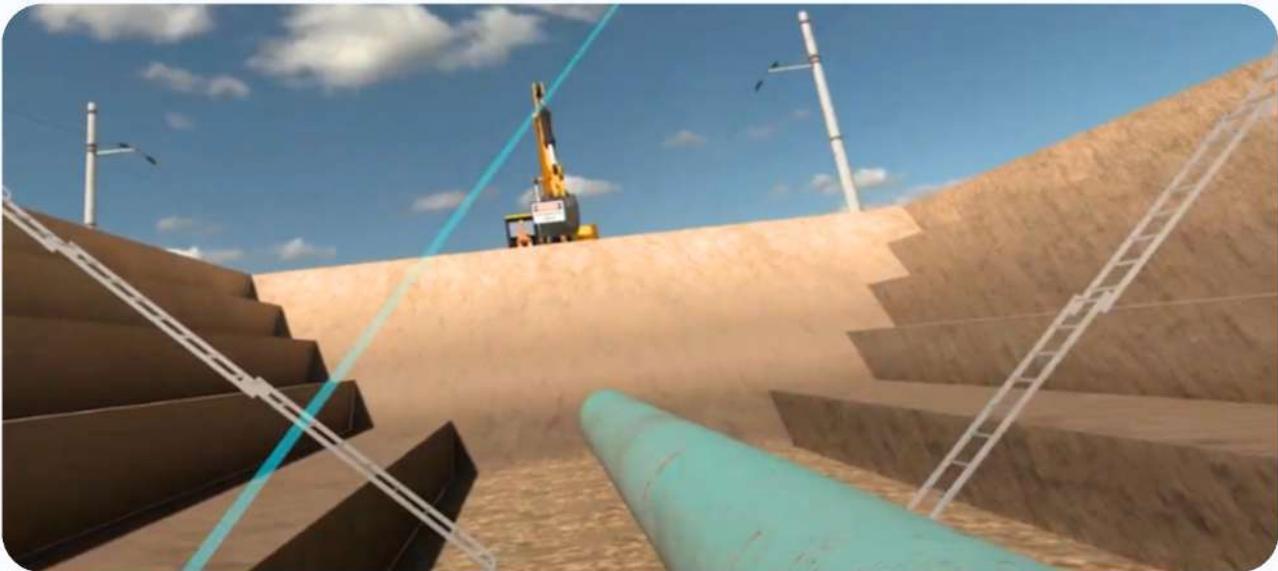


1. Welcome to the Trenching and Excavation Safety VR Training. Select the mode. Point the controller at the mode and press the trigger.





2. Come to the foreman. To move, point the controller at the green circle and press the trigger.
3. Ask the foreman to give you a checklist. To do this, point the controller at him and press the trigger. Then select "Request a checklist" in the menu.
4. Read the document. To do this, inspect it until the green check mark appears.
5. Take the checklist. To do this, move your hand to the object and press the trigger.
6. Hang the checklist on your belt. To do this, bring the checklist to the highlighted area and press the trigger.
7. Take the traffic cone. To do this, move your hand to the object and press the trigger.
8. Place traffic cones along the road. Move the cones to the highlighted area and press the trigger.
9. Take the sign. To do this, move your hand to the object and press the trigger.
10. Place the sign. To do this, bring the sign to the highlighted area and press the trigger.
11. Tell the worker to leave the danger area. To do this, pointer the controller at a person and press the trigger.
12. Tell the excavator to leave the danger area. To do this, point the controller at the excavator and press the trigger. Then select "Move the excavator to a safe work site" in the menu.



13. Check the location of power lines. To do this, point the controller pointer at the power lines. Then press the trigger on the controller.

14. Move the worker out of the danger zone. To do this, point the controller pointer at the worker. Then press the trigger on the controller. Then, in the menu that appears, select "Move work location".

15. Drain the trench. To do this, pointer the controller at the foreman and press the trigger. Then select "Drain the trench" in the menu.

16. Come to an open trench.

17. Determine the type of soil. To do this, move the controller to the highlighted area and press the trigger. Then in the menu that appears, select "Soil B (Loam)".

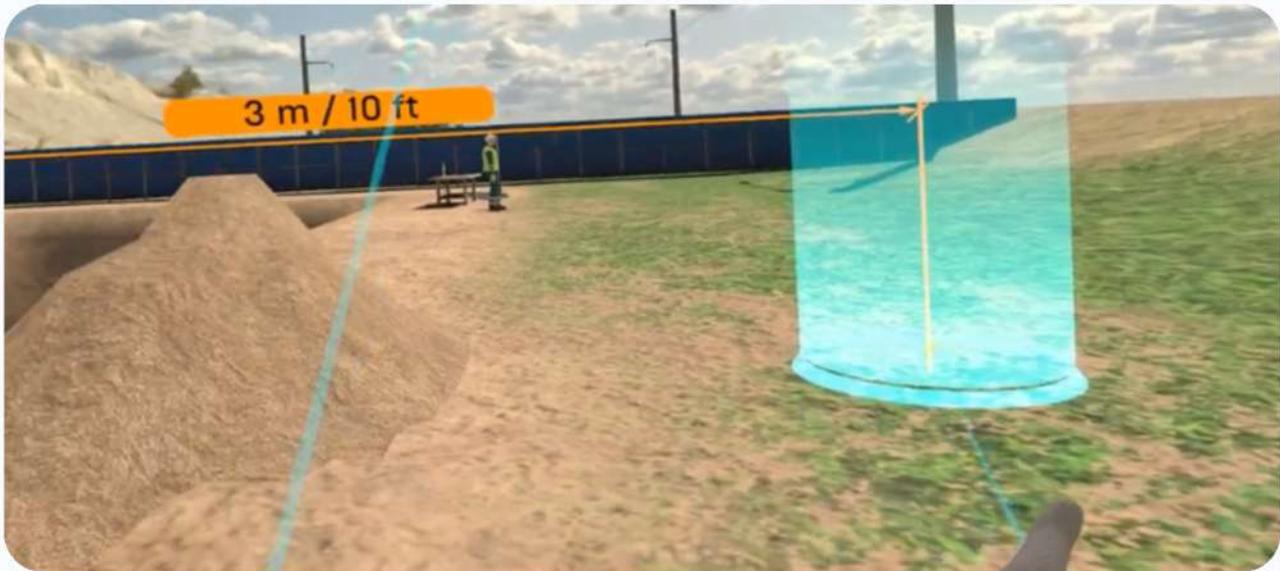
18. Check the sloping sides of the trench. To do this, point the controller pointer at the side of the trench. Then press the trigger on the controller and select the correct answer.

19. Fix cracks in slopes. To do this, point the controller pointer at the crack. Then press the trigger on the controller.

20. Approach the trench box area.

21. Remove the large stone. To do this, point the controller pointer at the stone and press the trigger on the controller.

22. Remove the pile of soil. To do this, point the controller pointer at the pile. Then press the trigger on the controller.



23. Insert the spacer. To do this, point the controller pointer at the highlighted area. Then press the trigger on the controller.

24. Take a gas detector from your breast pocket. To do this, move your hand to your breast pocket with the gas detector and press the trigger.

25. Switch on the gas detector. To do this, move your free hand towards the switch button and press the trigger. Wait until the device switches on.

26. Take the probes with your free hand. To do this, move your hand to the probe and press the trigger.

27. Do a gas test. To do this, move your hand with the probe into the highlighted area and press the trigger.

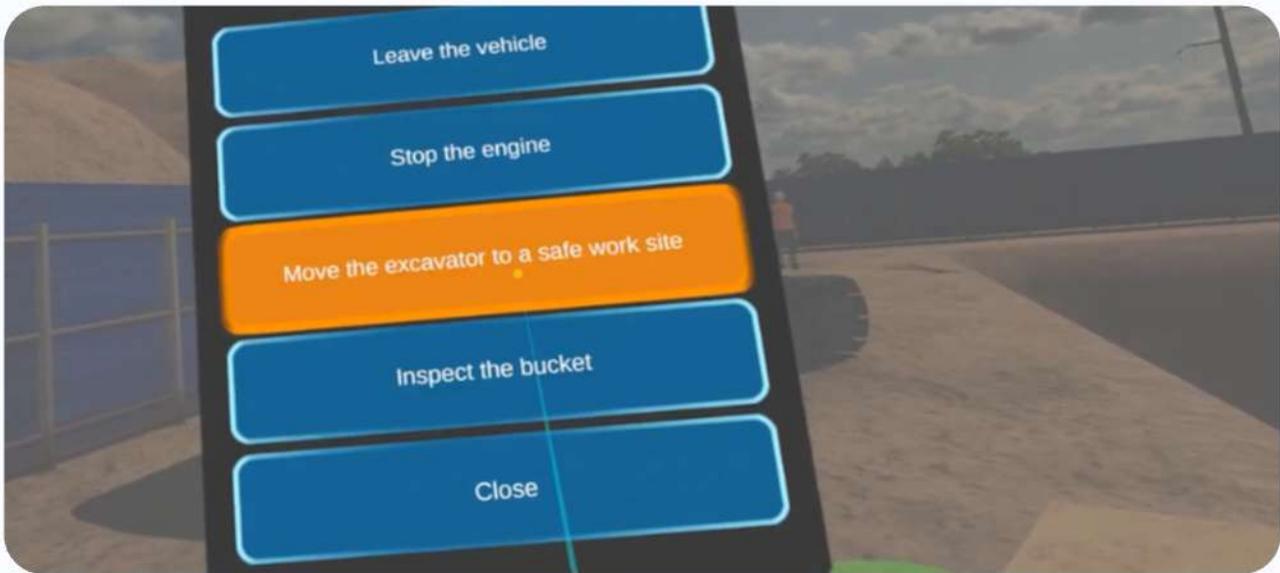
28. Check the gas test result. To do this, look at the device screen for three seconds.

29. Place the detector back in your breast pocket. To do this, move the detector to the highlighted area and press the trigger.

30. Take the ladder. To do this, move your hand to the ladder on the ground and press the trigger.

31. Install ladders along the trench. Two ladders in a wide trench and one in a trench support. To do this, bring the ladder into the highlighted area. Then press the trigger on the controller.

32. Stop the excavator. To do this, point the controller at the excavator and press the trigger. Then select "Stop the engine" in the menu.



33. Go down into the trench. To do this, point at the stairs of the ladder and press the trigger.
34. Check the trench support. To do this, point the controller pointer at the support. Then press the trigger on the controller.
35. Check the pipe for water. To do this, look inside the pipe for three seconds.
36. Remove debris from the bottom of the trench. To do this, move your hand into the highlighted area and press the trigger.
37. Return the checklist to the foreman. To do this, bring the checklist to the highlighted area and press the trigger.
38. The task is completed.
39. To exit the task press the Menu button.





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[www.nextworldxr.com](http://www.nextworldxr.com) | [enquiry@nextworldxr.com](mailto:enquiry@nextworldxr.com)