



NEXT WORLD

Electrical Safety

VR Module Overview



VR module created by 



Learning



Training



Certificate

Experience Overview

What's included in VR Electrical Safety



The training will start with taking and signing the work permit and putting on the necessary PPE. After that you will collect the tools needed for the task and transport them on the cart to your task location.

When you are near the switchgear you will have to provide all the procedures for the safe disconnection of the cell. It includes placing the warning signs, checking the voltage, shutting down the equipment part by part, and using different keys and tools.

After the shutdown, you will use a special cart to withdraw the cell and move it away from the container.



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.



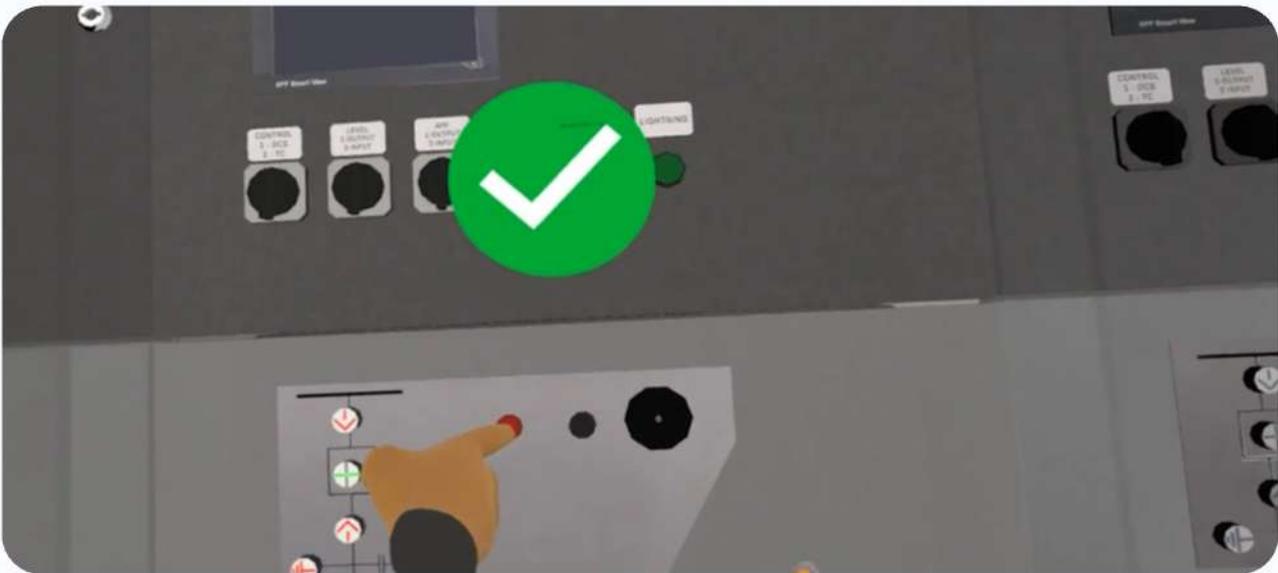
Module 1 Walkthrough

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.

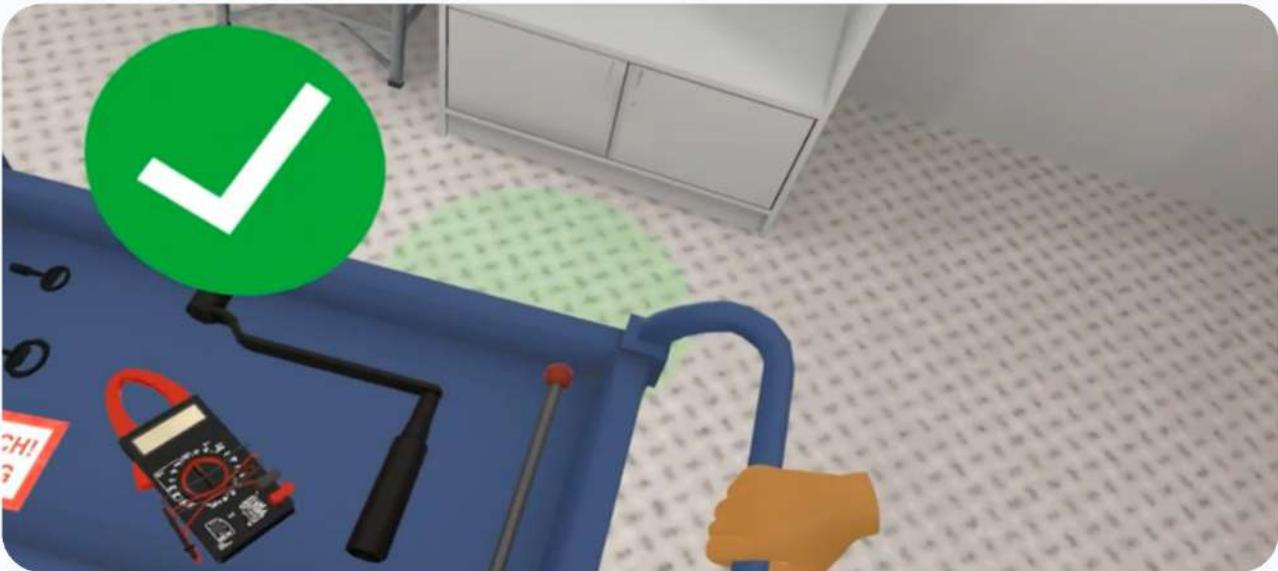


1. Welcome to the Electrical safety VR training. Select the mode. To do this, point the controller at the mode and pull the trigger.





2. Come to the foreman. To move, point the controller at the green circle and pull the trigger.
3. Sign the work permit. To do this, move your hand to it and pull the trigger.
4. Before working on switchgear, go to the cabinet and put on a set of personal protective equipment, including insulating gloves, a hard hat, goggles and non-conducting boots. To do this, move your hand to the required item and pull the trigger.
5. Take the multimeter and put it on the cart. To pick up an item, move your hand to it and pull the trigger. To release an object, bring it to the area and pull the trigger again.
6. Go to the opposite cabinet and take the square pin key to open the door of the secondary circuits module and place it on the cart.
7. Take the square pin key for the withdrawable element compartment door and the cable connection compartment and place it on the cart.
8. Take the handle for the withdrawable element and put it on the cart.
9. Take the handle for grounding the electrode and put it on the cart.
10. Take the warning sign and put it on the cart.
11. Move the cart to the required switchgear. To do this, grab the handle of the cart with your hand while holding the controller trigger and move with your free hand, then release the controller trigger.



12. Check the status of the switchgear on the front panel, and then turn it off. To do this, move your hand to the withdrawable element compartment switch and pull the trigger. One green lamp will light up.

13. Take a square pin key to open the door of the secondary circuit module and insert it into the relay compartment of the switchgear. To do this, bring the key to the lock of the upper compartment and pull the trigger.

14. Open the relay compartment lock. To do this, move your hand to the key in the lock and pull the trigger.

15. Open the relay compartment. To do this, put your hand in the highlighted area of the door and pull the trigger.

16. Turn off the power circuits of the relay in the relay compartment. To do this, move your hand to the switches and pull the trigger for each circuit separately.

17. Check the absence of voltage on all relays with a multimeter. To do this, take a multimeter from the cart and place it on the relay compartment in the highlighted area.

18. Turn on the multimeter. To do this, move your hand to the switch in the highlighted area and pull the trigger.

19. Take the probe attached to the multimeter, bring it to the measuring point and pull the trigger. Repeat the operation for all measuring points of the relay.

20. Release the probe. To do this, pull the trigger of the probe hand controller, and then take the multimeter and put it back on the cart.



21. Take the warning sign - Do not turn on, men at work and place it in the relay compartment in the highlighted area.

22. Set the withdrawable element to the control position. To do this, take the handle for the withdrawable element.

23. Slide the protective cover for the handle with your free hand by bringing your hand up to it in the highlighted area, pulling and holding the trigger. Then without releasing the trigger bring the handle for the withdrawable element and place it in the highlighted area of the withdrawable element compartment.

24. Turn the handle for the withdrawable element. To do this, move your hand to it, pull and hold the trigger, and then turn the handle clockwise until it stops.

25. Put the handle for the withdrawable element back onto the cart.

26. Take the handle for grounding electrode from the cart.

27. Slide the protective cover for the handle with your free hand by moving your hand in the highlighted area, pulling and holding the trigger. Then without releasing the trigger place the handle for grounding electrode in the highlighted area of the withdrawable element compartment.

28. Turn the handle for the grounding electrode. To do this, bring your hand to it, pull and hold the trigger, and then turn the handle clockwise 90 degrees. At the same time, a distinctive sound will sound, and one of the indicators on the front panel will change to green.

29. Put the handle for grounding electrode back onto the cart.



30. Open the withdrawable element compartment. To do this, take the pin key from the cart, insert it into the lock of the middle compartment and pull the trigger to open the lock without removing your hand from the key.

31. Disconnect the plug connector of the withdrawable element. To do this, move your hand to the connector at the top of the withdrawable element and pull the trigger. Then bring the plug connector to the highlighted area and pull the trigger.

32. Take an empty cart for a withdrawable element located at the entrance and place it in front of the switchgear in the highlighted area. To do this, grab the cart with one hand holding the controller trigger and without releasing it move to the control switchgear with the free hand, and then release the controller trigger.

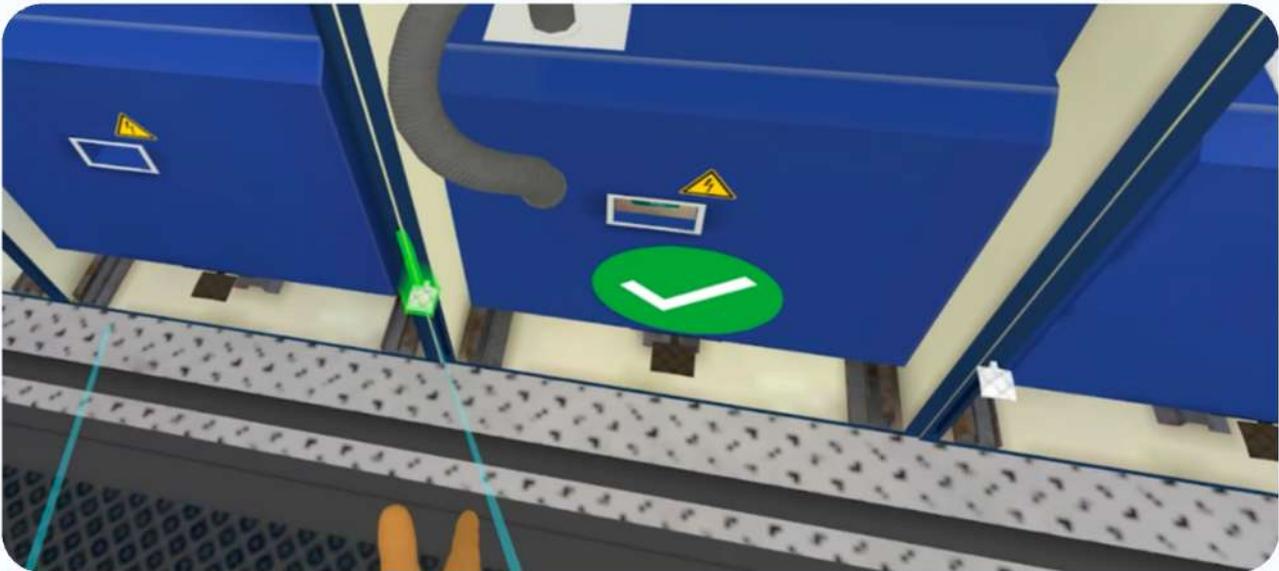
33. Place the cart for the withdrawable element at the same height as the withdrawable element. To do this, take the handle for the grounding electrode and insert it into the cart.

34. Bring your hand to the handle, pull and hold the trigger. Then rotate the handle to level the cart height with the withdrawable element. Turn the handle clockwise to lower the cart. Turn the handle counterclockwise to lift the cart up.

35. Put the handle back onto the tool cart.

36. Insert the cart for the withdrawable element into the switchgear slots till it goes click. To do this, grab the cart with your hand and slide it into the slots.

37. Pull out the withdrawable element onto the cart. To do this, grab the withdrawable element with both hands bringing your hands to the highlighted areas of the withdrawable element and then pull it onto the cart holding the triggers of the controllers until it stops.



38. Take the cart to the foreman. To do this, grab the cart with one hand, holding the controller trigger and without releasing it move to the foreman with the help of the free hand. Drive the cart to the highlighted area and then release the controller trigger.

39. Come back and close the withdrawable element compartment. To do this, move your hand to the compartment door in the highlighted area and pull the trigger.

40. Close the compartment lock, to do this, move your hand to the key and pull the trigger.

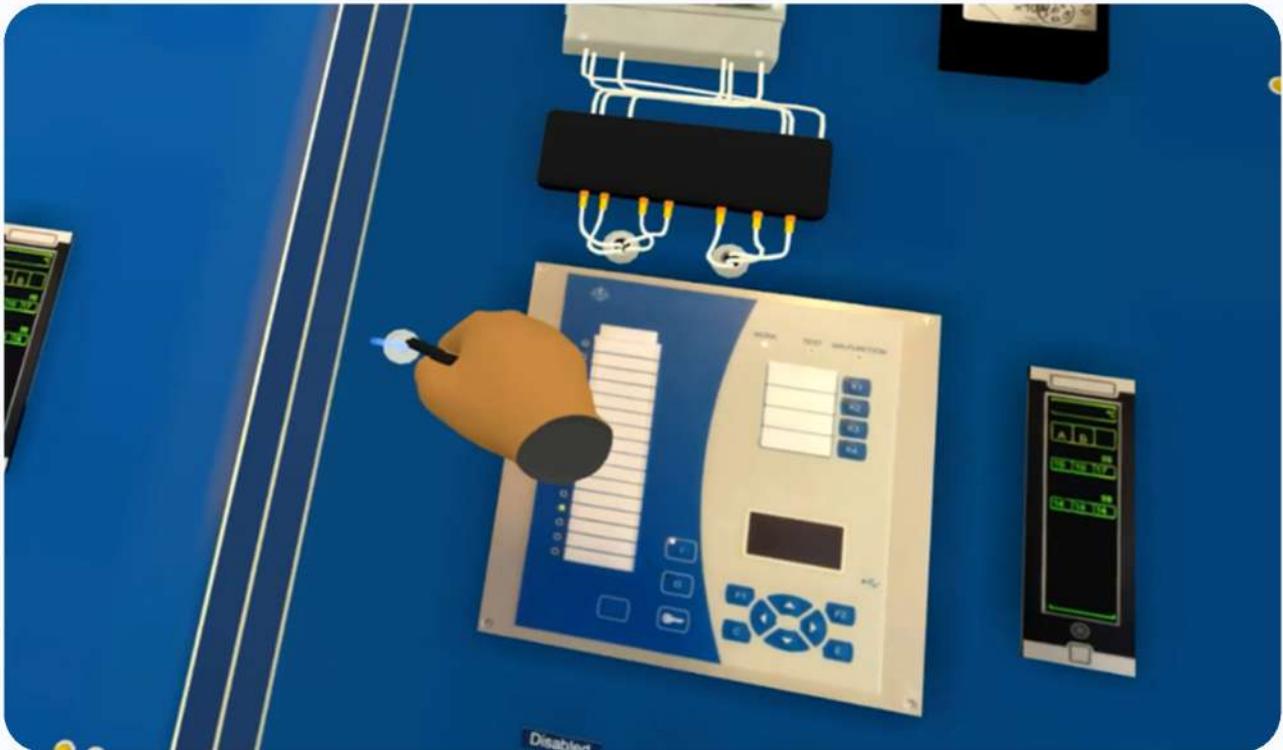
41. Take the pin key to the tool cabinet. To do this, move your hand to it and pull the trigger and then proceed to the cabinet, bring the key into the highlighted area and pull the trigger.

42. The task is completed.

43. To exit the task press the Menu button.

Module 2 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 Electrical safety VR training. Select the mode. To do this, point the controller at the mode and pull the trigger.
2. Come to the table. To move, move the controller pointer over the green circle and pull the trigger.
3. Put your signature on the admission order. To do this, move your hand to the subject and press the trigger of the controller.
4. Before working with the cell, go to the cabinet. Put on a set of personal protective equipment. The kit includes a helmet with a protective face shield, dielectric gloves and dielectric boots. To do this, move your hand to the desired item and press the trigger of the controller.
5. Take and put on dielectric boots. To pick up an item, move your hand to it and pull the controller trigger. To release, install or put on an object in your hand, bring it to the installation area in the highlighted area and pull the controller trigger.





6. Take the wiring diagram from the table.
7. Based on the wiring diagram, determine the cell for work according to the dispatcher's names and proceed to it.
8. Hang the wiring diagram on your belt.
9. Check that there is no load on the circuit breaker using an ammeter. To do this, point the controller pointer at the ammeter panel. Then pull the trigger on the controller. Then point at the correct answer option in the menu and pull the trigger. If there is a load, you must inform the manager about it.
10. Turn off the ten kilovolt switch with the control key. To do this, move your hand to the switch. Then pull the trigger on the controller.
11. Check the open position of the 10 kV switch against the mechanical indicator. To do this, point over the controller. Then pull the trigger. Then move the controller's pointer over the desired answer option in the context menu and pull the trigger.
12. Turn around and take the safety sign Do not turn on, people are working from the cabinet with KRU accessories.
13. Install a sign on the door of the switchgear control busbar block near the control keys.
14. Take the dihedral key from the accessory cabinet. Open the door of the control bus box with a dihedral wrench.
15. Insert the key into the door lock. To do this, bring it to the highlighted area of the door lock. Then pull the trigger on the controller.



16. Check the key. To do this, move your hand to the key in the lock. Then pull the trigger on the controller.

17. Open the control bus box door. To do this, move your hand to the highlighted area of the door. Then pull the trigger on the controller.

18. Turn off the control bus machine. To do this, move your hand into the highlighted area of the machine. Then pull the trigger on the controller.

19. Take the “Do not turn on, people are working” sign from the cabinet with accessories and place it over the switched off control bus breaker.

20. Close the control bus box door. To do this, move your hand to the highlighted area of the door. Then pull the trigger on the controller.

21. Take the key from the lock. take the key to its place in the tool cabinet.

22. Disconnect the circuit breaker control loop. To do this, move your hand to the highlighted area of the cable and hold the controller trigger to hold the cable while unscrewing. Then move your free hand to the highlighted area of the cable plug and pull the trigger to unscrew it.

23. Remove the cart roll out locks. To do this, place your hand on the lock lever and pull the controller trigger to rotate the lever one half turn counterclockwise until it clicks up.

24. Depress the Rollout Cart Release Pedal. To do this, point the controller to the right pedal and pull the controller trigger.



25. Press the trolley roll out lever to move the trolley out of the switchgear by 5-10 centimeters. To do this, move the controller pointer to the left pedal. Then pull the trigger on the controller.
26. Roll the cart out of the cell by 1 meter. To do this, move your hands into the highlighted areas of the cart and hold the triggers of the controllers. Then roll out the trolley to the required distance so that there is no contact with the switchgear.
27. Take the key of grounding knives in the accessory cabinet. Install it in the withdrawable element compartment in the highlighted area.
28. Turn on the grounding knives. To do this, move your hand to the highlighted area of the key and pull the controller trigger to raise the key.
29. Take the Grounded sign in the accessory cabinet. Install a Grounded sign above the key of the grounding knives.
30. Install a Grounded sign above the key of the grounding knives.
31. The task is completed.
32. To exit the task press the Menu button.

VR Trainee Certificate

Employees will receive a VR Trainee Certificate upon successfully completing a training module.



Certificate of Completion:
Finished the module, underperformed the pass threshold



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