NEXT WORLD

Solar Panels Maintenance (Rooftop)

VR Module Overview



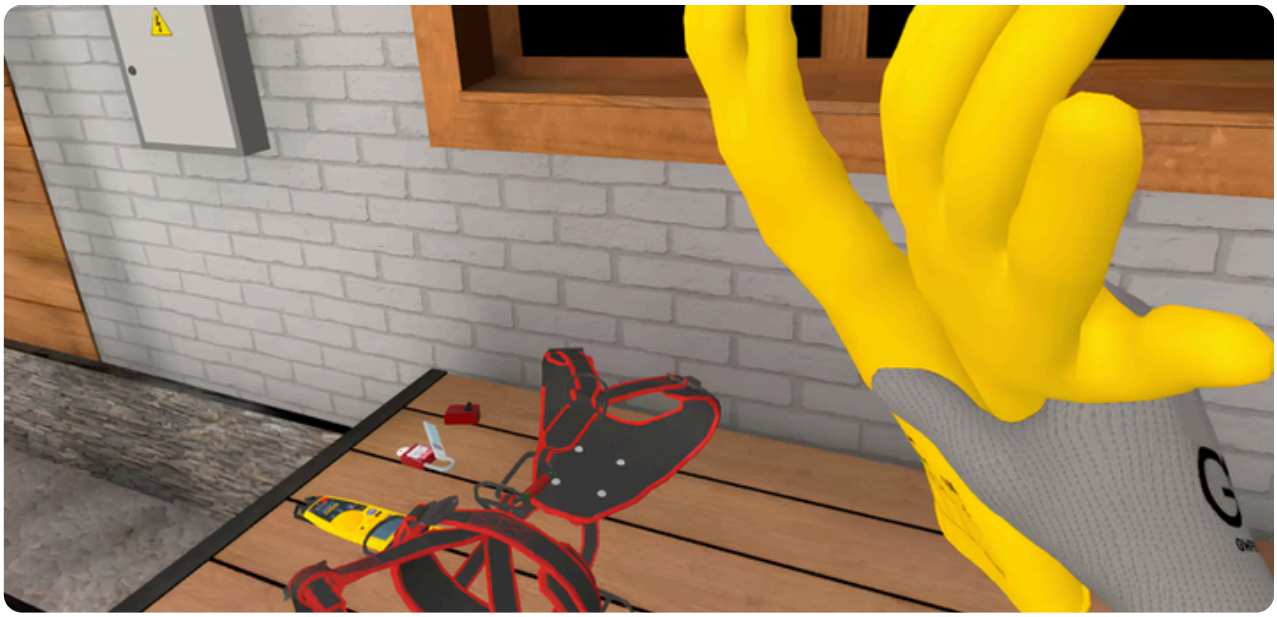
VR module created by GWPRO.IO



- Learning
- Training
- Certificate

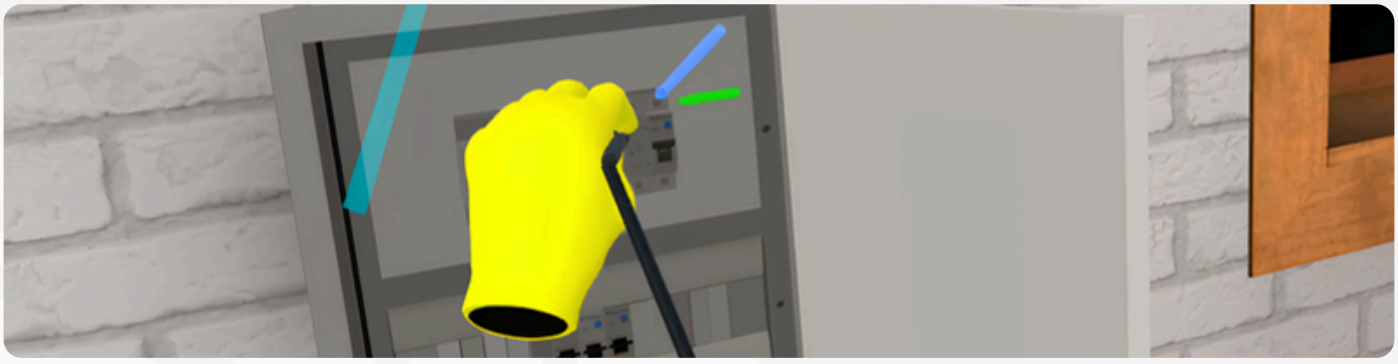
Experience Overview

What's included in VR Solar Panels Maintenance (Rooftop)



In GWPro Rooftop Solar Panel Maintenance VR Training, you step into the role of a technician servicing an energized rooftop solar array.

You access the roof by ladder, clip onto a horizontal lifeline, lock out the DC circuit, then clean, tighten and replace panels while the strings stay live. You build the habits that keep high, electrical solar work safe.



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.

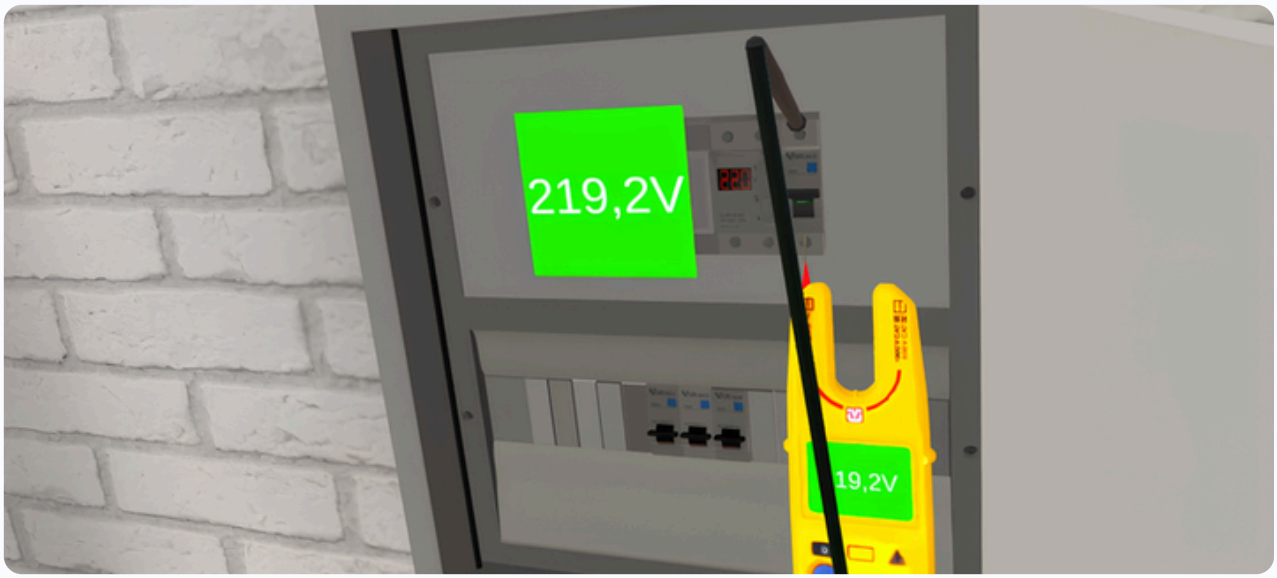


Module Walkthrough

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 rooftop solar panel maintenance simulator. Select the simulator mode. Point the controller at the desired mode and pull the trigger.



2. You are acting as a rooftop solar PV maintenance technician. Your task is to safely service and repair an energized rooftop solar array. Before performing this task, you received theoretical instruction on the safe maintenance of energized rooftop solar systems at height.

3. Approach the supervisor. Point the controller at the green circle and pull the trigger.

4. Talk to the supervisor. Point the controller at him and pull the trigger.

5. Request the work permit. Choose the correct answer.

6. Take the work permit. Bring your hand to the work permit and pull the trigger.

7. Read the work permit. Look over the object.

8. Give the work permit back. Bring it to the supervisor's hand and pull the trigger.

9. Put on all personal protective equipment and pick up the toolbox.

10. Approach the PPE table. Point the controller at the green circle and pull the trigger.

11. Take the hard hat. Bring your hand to the hard hat and pull the trigger.

12. Inspect the hard hat: check the shell and suspension.

13. Put on the hard hat. Bring it to your head.

14. Take the arc-rated face shield and glasses. Bring your hand to the face shield and glasses and pull the trigger.



15. Inspect the face shield and glasses: check the visor and lenses for cracks and scratches.

16. Put on the face shield and glasses. Bring them to your face.

17. Take the arc-rated coverall. Bring your hand to the arc-rated coverall and pull the trigger.

18. Inspect the arc-rated coverall: check for tears, holes and damaged seams.

19. Put on the arc-rated coverall. Bring it to your body.

20. Take the Class 0 gloves. Bring your hand to the Class 0 gloves and pull the trigger.

21. Inspect the gloves: check for cuts, cracks and holes.

22. Put on the Class 0 gloves. Bring them to your hands.

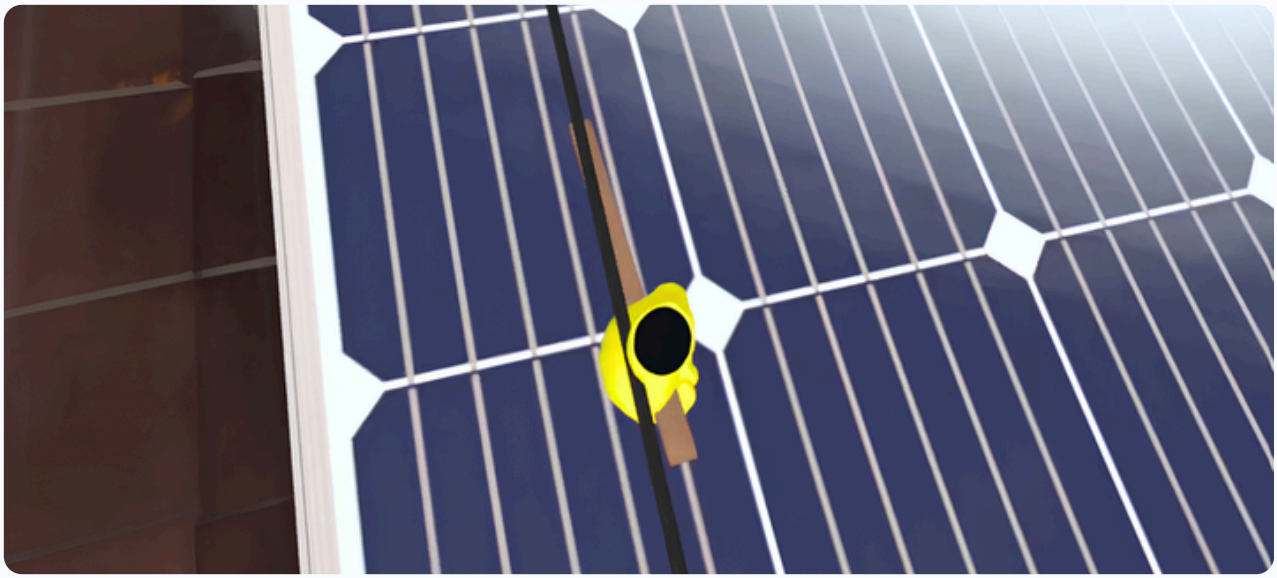
23. Take the harness. Bring your hand to the harness and pull the trigger.

24. Inspect the harness: check the webbing, stitching and buckles.

25. Put on the harness. Bring it to your body and pull the trigger.

26. Take the coil safety carabiner. Bring your hand to the object and pull the trigger.

27. Clip the coil carabiner onto the harness. Bring it to the highlighted zone and pull the trigger.



28. Take the coil. Bring your hand to the object and pull the trigger.

29. Inspect the coil for defects. To do this, take the coil and inspect it from all sides.

30. Clip the coil onto the harness. Bring it to the highlighted zone and pull the trigger.

31. Take the toolbox. Bring your hand to the toolbox and pull the trigger.

32. Stow the toolbox on the left. Bring it to the shadow on your left and pull the trigger.

33. Inspect the ladder and climb up to the roof.

34. Approach the ladder base. Point the controller at the green circle and pull the trigger.

35. Confirm the ladder setup. Point the controller at the ladder and pull the trigger.

36. Confirm the right ladder setup angle. Point the controller at the figure under the ladder and pull the trigger.

37. Climb up to the roof. Point the controller at the ladder and pull the trigger.

38. Clip your carabiner onto the horizontal lifeline.

39. Take the coil. Bring your hand to the object and pull the trigger.

40. Clip the carabiner onto the lifeline. Bring it over and pull the trigger.



41. Isolate and lock out the circuit you will service.

42. Approach the combiner box. Point the controller at the green circle and pull the trigger.

43. Set the toolbox on the floor. Bring it to the marked zone and pull the trigger.

44. Open the combiner box cover. Bring your hand to the combiner box cover and pull the trigger.

45. Take the multimeter. Bring your hand to the object and pull the trigger.

46. Inspect the meter. To do this, inspect the meter from all sides.

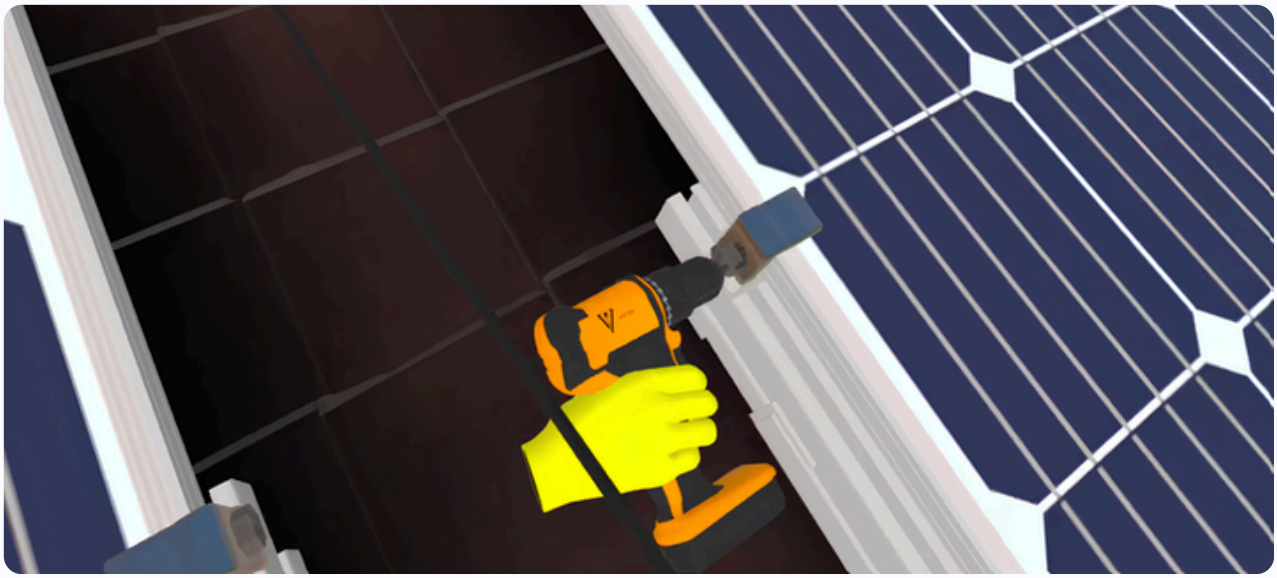
47. Switch the meter to the continuity mode. To do this click on the icons on the side of the meter with the raycast.

48. Take out the black probe. To do this click on the icons on the side of the meter with the raycast.

49. Test the continuity mode and receive the beep sound. To do this touch one probe with another.

50. Switch the meter to the voltage mode. To do this click on the icons on the side of the meter with the raycast.

51. Insert the probe in the neutral connector. To do this, put the probe in the highlighted area in the combiner box.



52. Measure the voltage. Bring the meter to the terminals.

53. Put the probe back in the meter. To do this click on the icons on the side of the meter with the raycast.

54. Switch off the DC disconnect. Bring your hand to the object and pull the trigger.

55. Insert the probe in the neutral connector. To do this, put the probe in the highlighted area in the combiner box.

56. Measure again. Bring the meter to the terminals.

57. Put the probe back in the meter. To do this click on the icons on the side of the meter with the raycast.

58. Apply the lockout device to the disconnect. Bring it over and pull the trigger.

59. Fix the padlock and hang the tag. Bring the padlock over and pull the trigger.

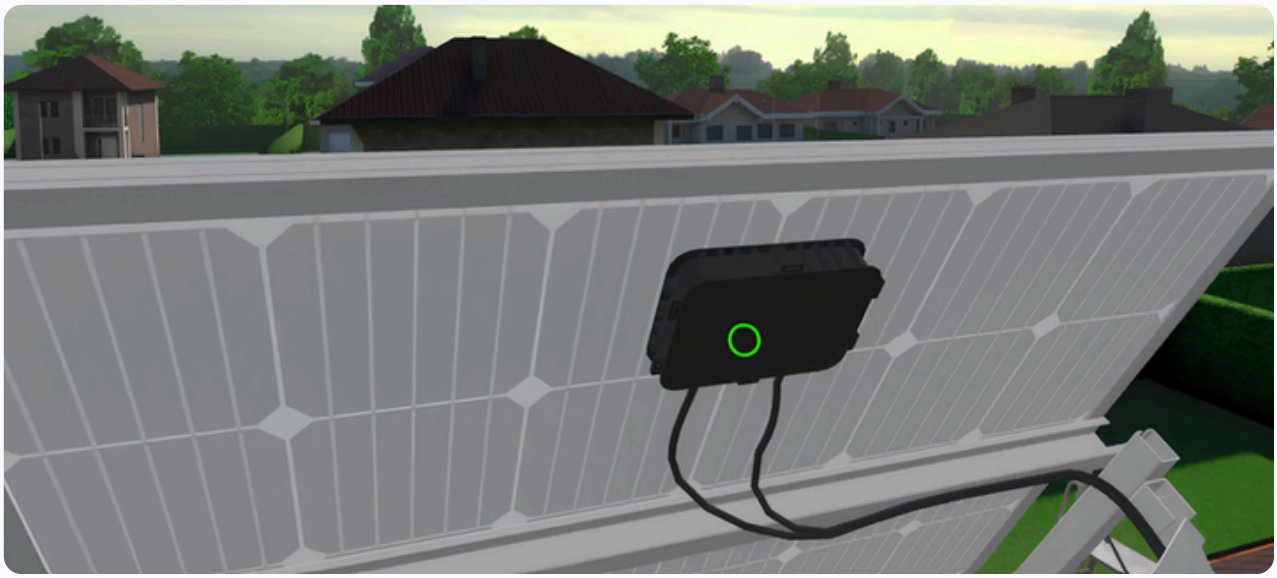
60. Sign the lockout tag. To do this, move your hand to it and pull the controller trigger.

61. Confirm the module strings stay live. Point the controller at the array and pull the trigger.

62. Clean the soiled panels, tighten the loose connector and find the faulty module.

63. Take the soft brush. Bring your hand to the object and pull the trigger.

64. Approach the panels. Point the controller at the green circle and pull the trigger.



65. Clean the soiled modules. Bring it over and pull the trigger.

66. Put the brush back in the box. Bring it over and pull the trigger.

67. Take the torque tool. Bring your hand to the object and pull the trigger.

68. Tighten the loose connector. Bring it over and pull the trigger.

69. Put the torque tool back. Bring it over and pull the trigger.

70. Inspect the east array and find the faulty module. Look over the marked areas.

71. Replace the faulty panel with a new one, in sequence and with the string still live.

72. Take the torque tool. Bring your hand to the object and pull the trigger.

73. Unfasten the four panel mounts. Point the controller at each mount and pull the trigger.

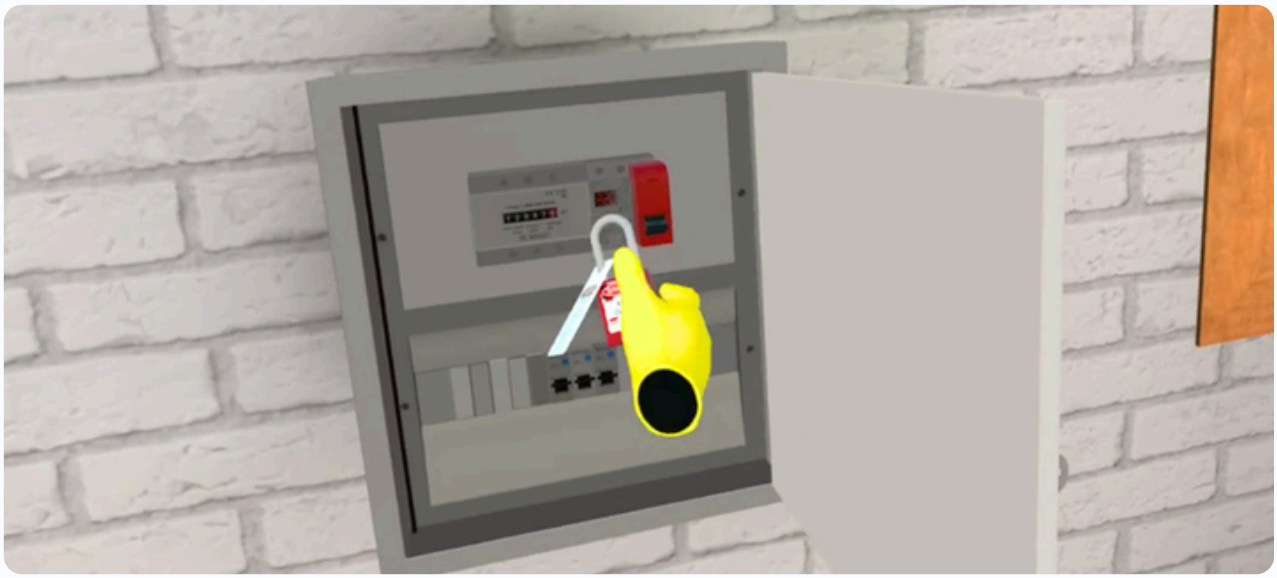
74. Put the torque tool back. Bring it over and pull the trigger.

75. Disconnect the wires at the junction box. Bring it over and pull the trigger.

76. Remove the defective panel. Point the controller at the panel and pull the trigger.

77. Install the new panel. Point the controller at the slot shadow and pull the trigger.

78. Reconnect the wires at the junction box. Point the controller and pull the trigger.



79. Take the torque tool again. Bring your hand to the object and pull the trigger.

80. Fasten the new panel with the four mounts. Point the controller at each mount and pull the trigger.

81. Put the torque tool back. Bring it over and pull the trigger.

82. Restore the system, descend and sign off the work permit.

83. Remove the padlock and tag. Bring your hand to the object and pull the trigger.

84. Put the padlock back in the box. Bring it to the highlighted zone and pull the trigger.

85. Remove the lockout device. Bring your hand to the object and pull the trigger.

86. Put the lockout device back in the box. Bring it to the highlighted zone and pull the trigger.

87. Switch the disconnect back on. Bring your hand to the object and pull the trigger.

88. Close the combiner box cover. Bring your hand to the object and pull the trigger.

89. Take the toolbox. Bring your hand to the toolbox and pull the trigger.

90. Stow the toolbox on the left. Bring it to the shadow on your left and pull the trigger.

91. Return to the access landing. Point the controller at the green circle and pull the trigger.



92. Unclip from the lifeline. Point the controller at the carabiner and pull the trigger.

93. Climb down the ladder. Point the controller at the ladder and pull the trigger.

94. Set the toolbox on the floor. Bring it to the marked zone and pull the trigger.

95. Sign the work permit. Bring your hand to the object and pull the trigger.

96. Task complete. You have successfully finished the rooftop solar panel maintenance course.

97. The task is completed.

98. 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



www.nextworldxr.com | enquiry@nextworldxr.com