



PRODUCT DESCRIPTION



VRAPP at Height is a carefully planned VR-based height training system. It is aimed at individuals interested in working safely at height and companies performing work at height in sectors such as industry, telecommunications, energy and construction. The training system consists of three-part scenarios that explain the principles of working safely at height on typical objects such as aerial lifts and demonstrate rescue procedures in the event of workplace accidents. The elements of each scenario are: a VR instructional video showing what is about to happen in the VR application, equipment selection, and the actual VR application for the task to be performed. Each of these scenarios is offered in 2 modes: basic mode and learning mode. In base mode, the user is not notified of any errors. In learning mode, a strict instructor points out any mistake made. Negative points are assigned for those. To complete the training, a minimum number of points must be achieved. These are displayed in the final table of the respective scenario. After successfully completing a series of scenarios selected by the company organizing the training, one can receive a certificate confirming the acquisition of knowledge in a specific area, for example, safe work on a flat roof. The scenarios are tailored to industries by implementing them in specific environments, for example, climbing a chimney.

VRAPP at Height is made available by the administrator through a System Sharing Platform (described in more detail at the end of this catalogue) and access codes.

To use the VRAPP at Height application, the following minimum hardware/software requirements must be met: **HTC VIVE PRO + VIVE Tracker 3.0 or HTC VIVE Focus 3 + 1 x VIVE Ultimate Tracker,** PC: Windows 10/11, Procesor Intel Core i7-9750H 2,6 GHz, RAM: 16 GB, GeForce RTX 2070, USB 3.0, DisplayPort 1.2.

CATALOGUE BY INDUSTRY

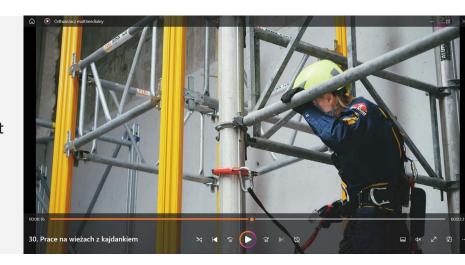
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PPE SELECTION



Videos in 2D and 3D show how to select the proper equipment for a given task.



VRAPP at Height makes it possible to train choosing the proper equipment for every task at hand. Each scenario begins with this step as an option. Experienced technicians participating in the training can choose to omit this step and go directly to the task.







THE CONSTRUCTION INDUSTRY

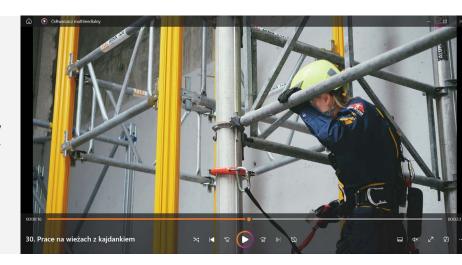
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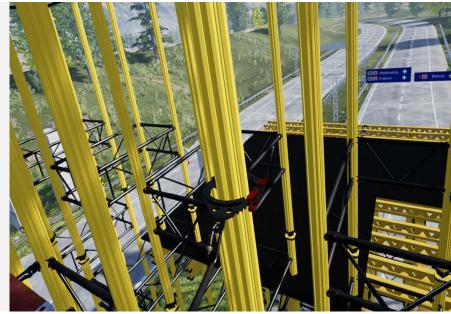
Belaying on aluminum scaffolding towers using anchoring devices at construction sites for an office high-rise building and a flyover



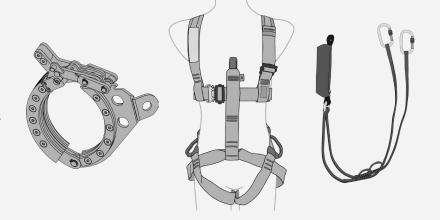
Instructional 2D and 3D videos show how to use safety equipment while moving around on scaffolding towers.



VRAPP at Height makes it possible to practice using safety hooks on a virtual reality training site.



To perform this exercise, you will need a harness, a double fall arrest lanyard and a pair of suitable scaffold safety hooks HAWP.

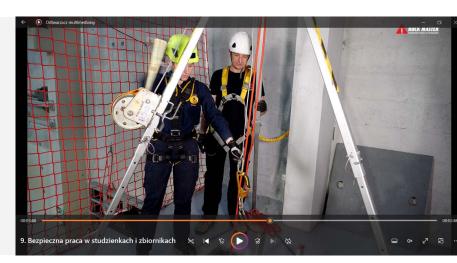




Fall protection while working in storage tanks and other confined spaces at a construction site



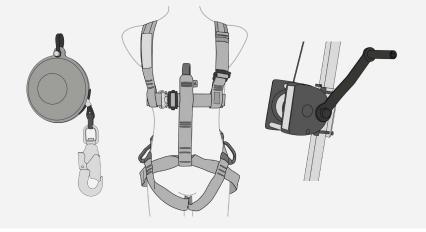
Instructional 2D and 3D videos show how to perform work in a storage tank and how to lift a casualty after an accident from the inside of the tank.



VRAPP at Height makes it possible to practice working and performing a rescue procedure in a storage tank using a lifting device on a virtual reality training site.



To perform this exercise, you will need a harness, a fall arrest lanyard and a self-retracting lanyard.

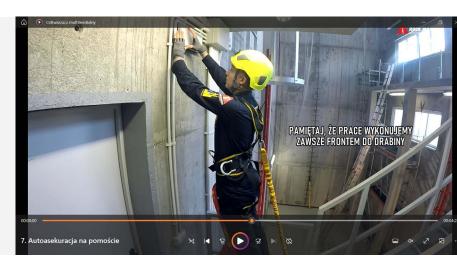




Self-belay while working from a ladder on a construction site platform

VRapp at Height

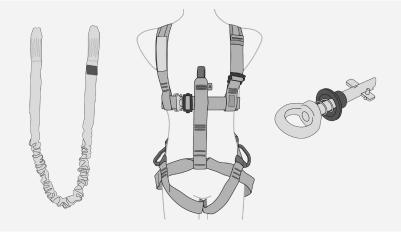
Instructional 2D and 3D videos show how to protect yourself from a fall while working on a ladder placed on a platform surrounded by railings or on a roof.



VRAPP at Height makes it possible to practice performing a task that involves using fall protection and replacing a device mounted on a wall while working off a ladder placed on a platform.



To perform this exercise, you will need a harness, a fall arrest lanyard, a tie bar anchor, a rope, and a pulley roll as well as some connectors and slings.





Safe work on wall formworks at construction sites for an office high-rise building and a flyover



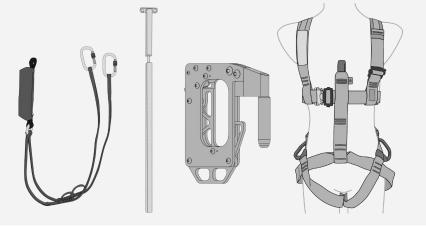
Instructional 2D and 3D videos show how to use safety equipment while moving around on formwork walls.



VRAPP at Height makes it possible to practice using safety hooks suited to the particular formwork type.



To perform this exercise, you will need a harness, HAS safety hooks, a double fall arrest lanyard and optionally some SAS posts.

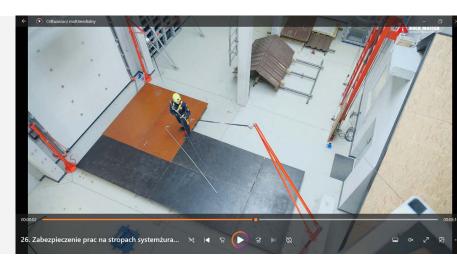




Work in ceiling areas at a construction site using davits as security devices



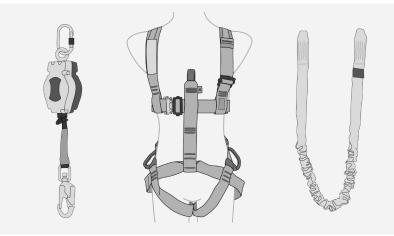
Instructional 2D and 3D videos show how to use safety equipment while working in ceiling areas.



VRAPP at Height makes it possible to practice using safety equipment while working with davits in the ceiling area.



To perform this exercise, you will need a harness, a fall arrest lanyard, and a personal self-retracting lanyard.

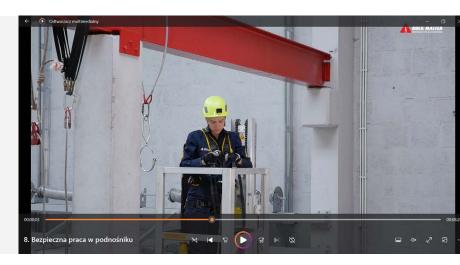




Working on lifts at construction sites



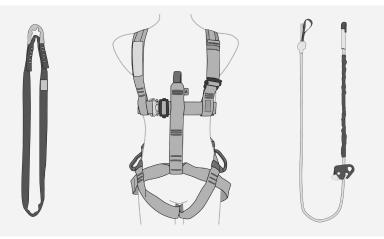
Instructional 2D and 3D videos show how to safely work and stay protected from falls from height while working from a personnel lift.



VRAPP at Height makes it possible to practice installing an anchor point at height using a personnel lift.



To perform this exercise, you will need a harness, an adjustable fall arrest lanyard and a sling.

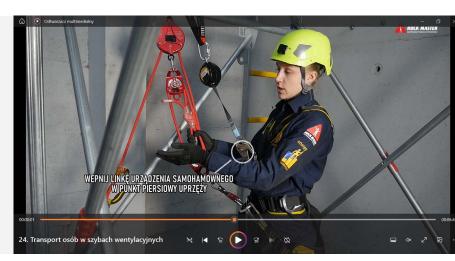




Working in air shafts and other confined spaces at construction sites



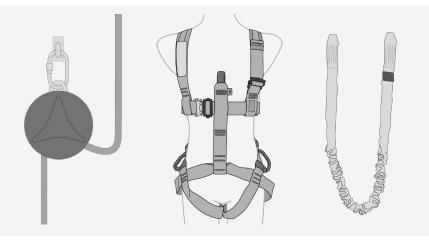
Instructional 2D and 3D videos show how to perform work in air shafts and other confined spaces.



VRAPP at Height makes it possible to practice performing a task that involves lowering a person into an air shaft for them to conduct works there and hoisting them out.



To perform this exercise, you will need a harness, a lowering and hoisting device RALF, and a fall arrest lanyard.

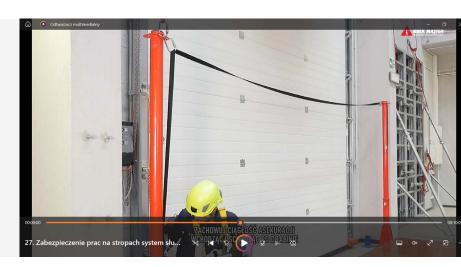




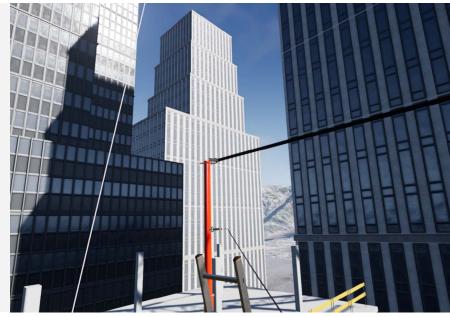
Work in ceiling areas at construction sites using a horizontal anchor line system



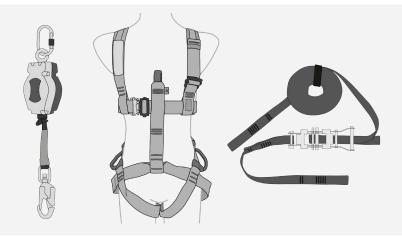
Instructional 2D and 3D videos show how to install and use safety equipment while working in ceiling areas.



VRAPP at Height makes it possible to practice using a fall protection system made up of posts and a horizontal anchor line while working in the ceiling area.



To perform this exercise, you will need a harness, the horizontal safety system, and a personal self-retracting lanyard.

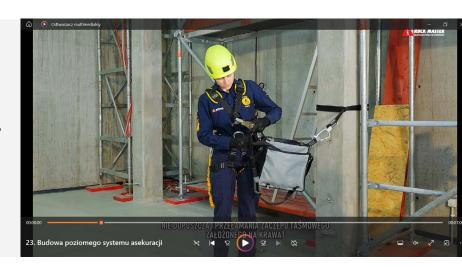




Working near edges at construction sites using a horizontal lifeline



Instructional 2D and 3D videos show how to install a horizontal safety system and safely perform work near an edge.



VRAPP at Height makes it possible to practice installing a horizontal safety system and belaying off it while performing work near an edge.



To perform this exercise, you will need a harness, the horizontal safety system, and a rope with a fall arrester.

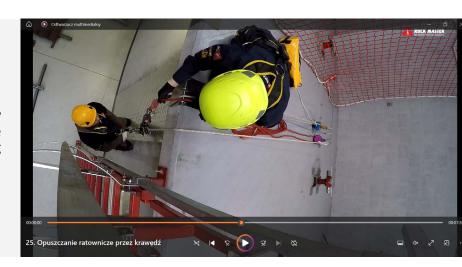




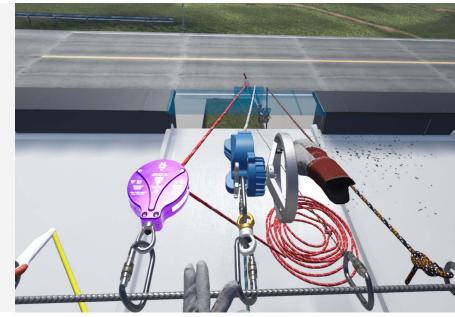
Rescue over an edge at construction sites



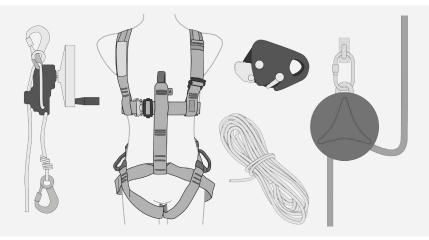
Instructional 2D and 3D videos show how to perform a rescue procedure using an automated device for lifting and lowering.



VRAPP at Height makes it possible to practice a rescue procedure using an automated device for lifting and lowering at a virtual reality training site.



To perform this exercise, you will need a harness, a rescue device, a self-retracting lanyard, ropes and fall arresters.

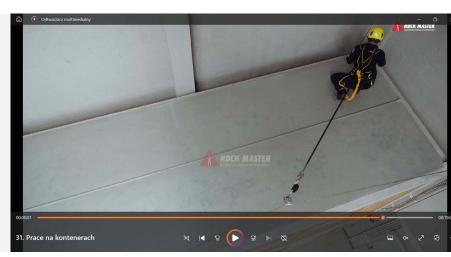




CAS - safe access to storage containers at construction sites



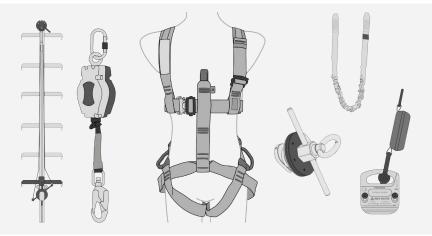
Instructional 2D and 3D videos show how to set up fall protection systems for work on storage containers, even multistory ones.



VRAPP at Height makes it possible to practice installing access ladders to the top of a multilevel container, accessing the same and installing a horizontal safety system there.



To perform this exercise, you will need a harness, ladders, a Tracker device, NPK, a self-retracting lanyard, and a fall arrest lanyard.

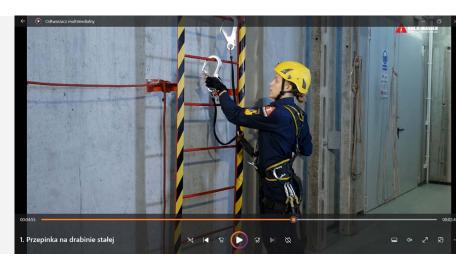




Fall protection while climbing on a lattice scaffolding tower at construction sites

VRapp at Height

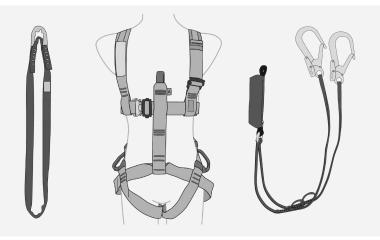
Instructional 2D and 3D videos show how to use safety equipment while moving around on lattice scaffolding towers.



VRAPP at Height makes it possible to practice climbing on a scaffolding tower and rigging an anchor for work.



To perform this exercise, you will need a harness, a double fall arrest lanyard with a pair of MGO hooks and a sling.

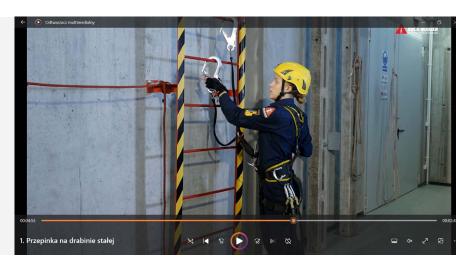




Fall protection while climbing on scaffoldings at construction sites e



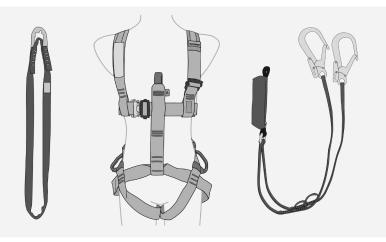
Instructional 2D and 3D videos show how to use safety equipment while moving around on scaffolding.



VRAPP at Height makes it possible to practice climbing on scaffoldings with proper fall protection.



To perform this exercise, you will need a harness, a double fall arrest lanyard and a sling.





Fall protection while climbing on a step ladder onto a prefabricated ceiling



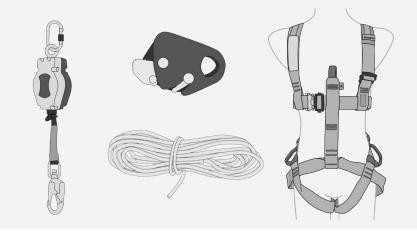
Instructional 2D and 3D videos show how to safely climb to the ceiling using a step ladder and proper fall protection equipment.



VRAPP at Height makes it possible to practice climbing on a step ladder with proper fall protection equipment and negotiating an edge.



To perform this exercise, you will need a harness, a fall arrest device, a rope, and a personal self-retracting lanyard.





Work accident at a construction site while carrying out work near the edge of a ceiling



The video shows a fall from a height as a consequence of not using fall protection or using it incorrectly, e.g., with a too long lanyard or where a swing fall is a possibility.



Work accident at a construction site while carrying out work near the edge of a formwork structure

VRapp at Height

VRAPP at Height makes it possible to stage a fall from height and demonstrate the results.





THE MANUFACTURING INDUSTRY

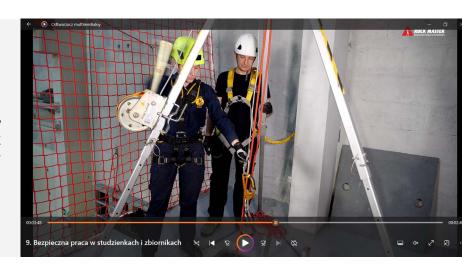
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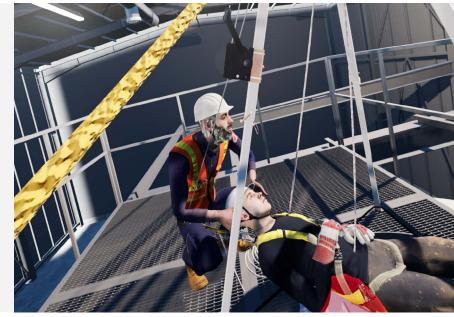
Fall protection while working in storage tanks and other confined spaces in a production facility

VRapp at Height

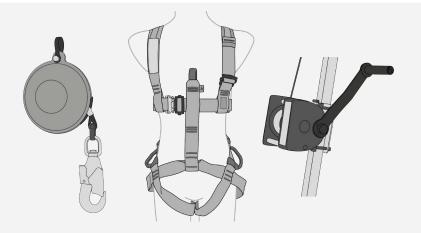
Instructional 2D and 3D videos show how to perform work in a storage tank and how to lift a casualty after an accident from the inside of the tank.



VRAPP at Height makes it possible to practice entering the tank using proper fall protection and performing a rescue procedure.



To perform this exercise, you will need a harness, a tripod, a self-retracting lanyard, and a winch.

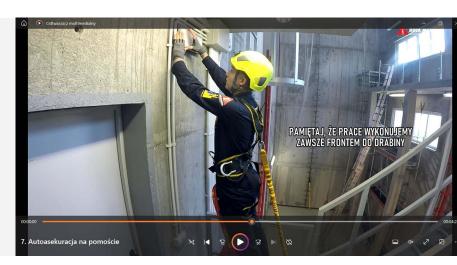




Self-belay while working on a platform in a production facility



Instructional 2D and 3D videos show how to protect yourself from a fall while working on a ladder placed on a platform surrounded by railings or on a roof.



VRAPP at Height makes it possible to practice maintenance work on a device only accessible via a step ladder standing on a platform.



To perform this exercise, you will need a harness, an adjustable fall arrest lanyard, a sling, a pulley roll, and rope.

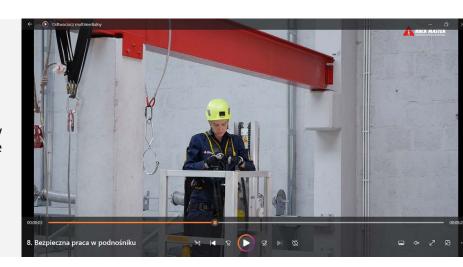




Working on lifts in a production facility



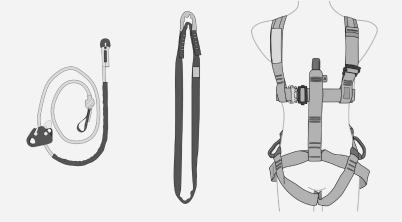
Instructional 2D and 3D videos show how to stay protected from falls while working in a personnel lift.



VRAPP at Height makes it possible to practice installing an anchor point at height using a personnel lift.



To perform this exercise, you will need a harness, an adjustable fall arrest lanyard and a sling.

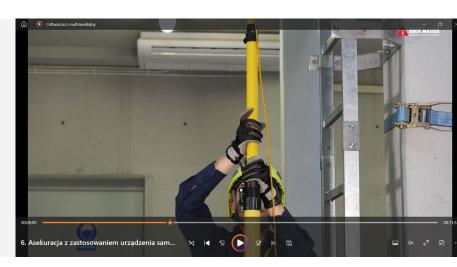




Working with a telescopic pole and fall protection using a self-retracting lanyard in a production facility

VRapp at Height

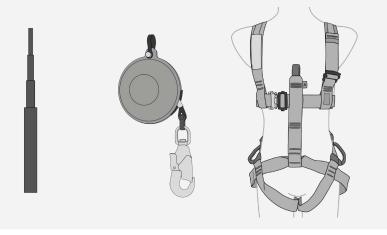
Instructional 2D and 3D videos show how to install a safety hook using a telescopic pole and how to correctly use a self-retracting lanyard.



VRAPP at Height makes it possible to practice installing a safety hook using a telescopic pole and using a self-retracting lanyard correctly.



To perform this exercise, you will need a harness, an anchoring hook, a self-retracting lanyard, and a telescopic pole.

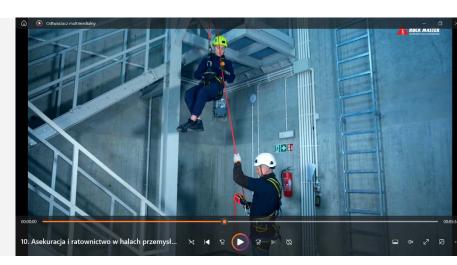




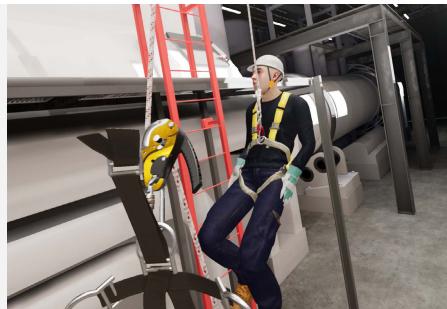
Rescue procedures in a production facility



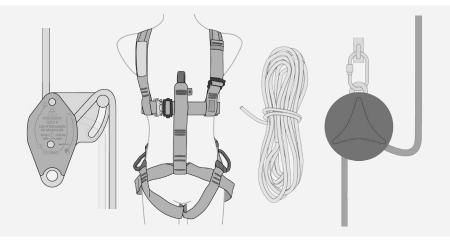
Instructional 2D and 3D videos show how to perform a rescue procedure using a descent device.



VRAPP at Height makes it possible to practice lowering a casualty hanging in a self-retracting lanyard after an arrested fall.



To perform this exercise, you will need a harness, a self-retracting lanyard, a descent device, a rope.





Fall protection while climbing on a step ladder in a production facility



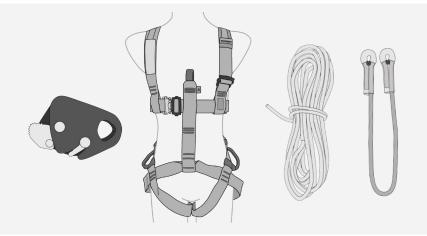
Instructional 2D and 3D videos show how to safely climb to the ceiling using a step ladder and proper fall protection equipment.



VRAPP at Height makes it possible to practice climbing on a step ladder with proper fall protection equipment and negotiating an edge.



To perform this exercise, you will need a harness, a fall arrester, a rope, and a safety lanyard.





Accidents while working on a step ladder



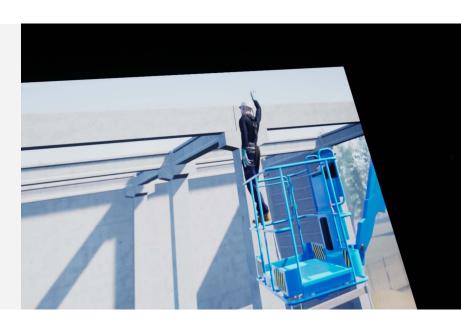
The video shows a fall from a height as a consequence of not using fall protection or using it incorrectly, e.g., with a too long lanyard or where a swing fall is a possibility.



Accidents while working on lifts



VRAPP at Height makes it possible to stage a fall from height and demonstrate the results.





WORK ON ROOFS

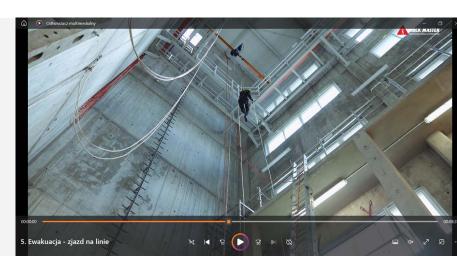
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Evacuation/descent from an office building



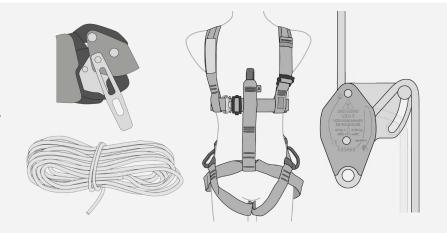
Instructional 2D and 3D videos show how to perform an unassisted rescue descent.



VRAPP at Height makes it possible to practice unassisted descent from an office building roof.



To perform this exercise, you will need a harness, a descent and rescue device, a fall arrest lanyard.

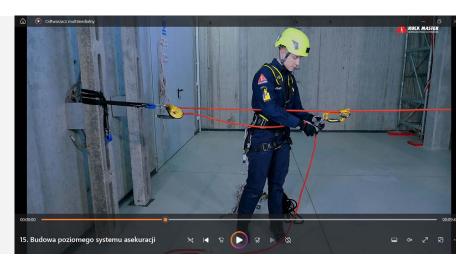




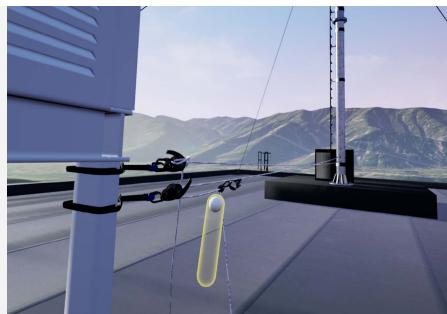
Tensioning a horizontal lifeline on a roof



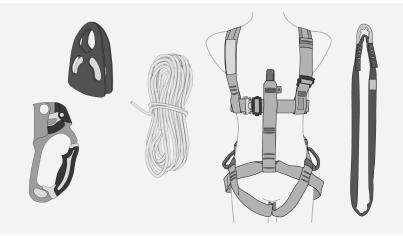
Instructional 2D and 3D videos show how to set up a horizontal safety system by tensioning ropes.



VRAPP at Height makes it possible to practice setting up a horizontal lifeline and avoiding falls from height while working near an edge using a rope and a fall arrester.



To perform this exercise, you will need a harness, 2 ropes 30 m each, a 10 m rope, a fall arrester, a tensioning device, an ascender with a pulley roll and some tape slings.

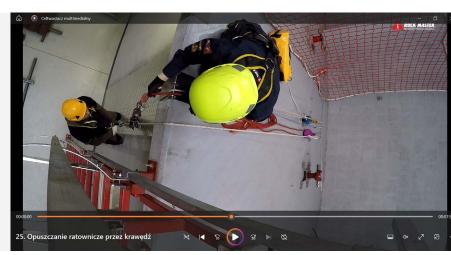




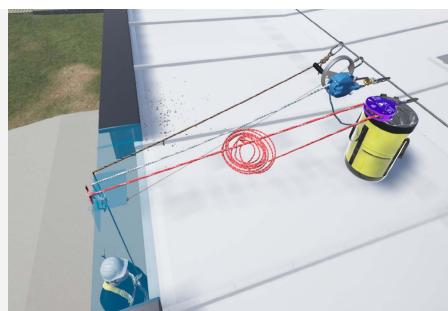
Rescue over an edge



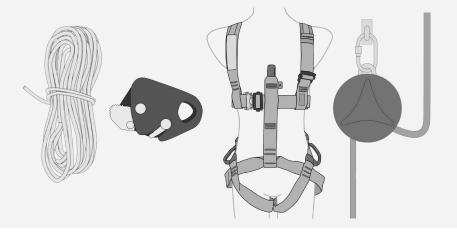
Instructional 2D and 3D videos show how to perform a rescue procedure using an automated device for lifting and lowering.



VRAPP at Height makes it possible to practice a rescue procedure using an automated device for lifting and lowering while working on a flat roof.



To perform this exercise, you will need a harness, a descent device, a fall arrester, ascenders, ropes, an edge protection.

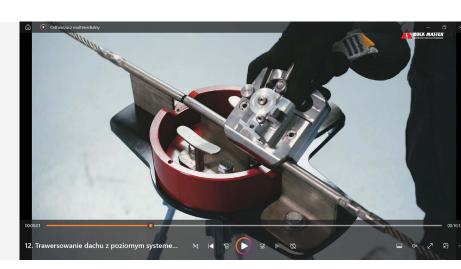




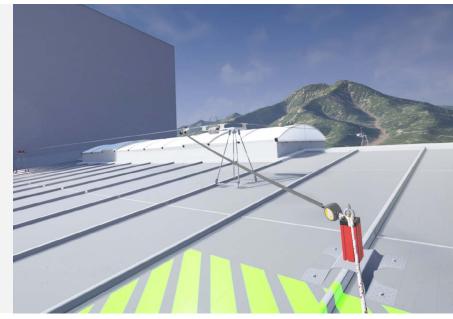
Track Master - traversing a roof and work restraint



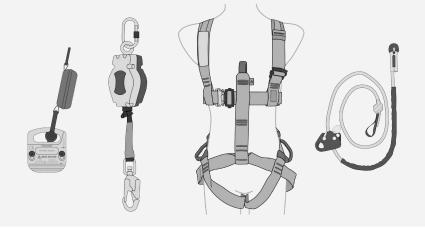
Instructional 2D and 3D videos show how to inspect a roof while staying protected from falls at all times.



VRAPP at Height makes it possible to practice moving around a flat roof while fall protected at all times.



To perform this exercise, you will need a harness, an adjustable lanyard, a Tracker device, and a self-retracting lanyard.





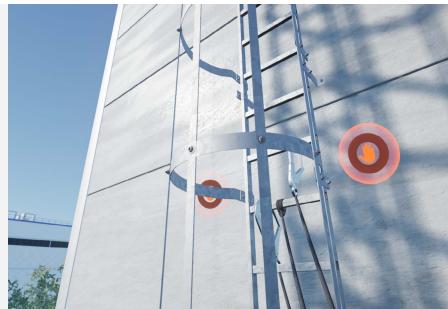
Fall protection while climbing on a fixed ladder on an office building



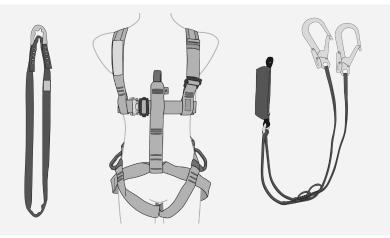
Instructional 2D and 3D videos show how to correctly protect oneself from a fall while climbing a fixed ladder using a double fall arrest lanyard.



VRAPP at Height makes it possible to practice entering a roof using an external fixed ladder and a double fall arrest lanyard and setting up an anchor for suspension work.



To perform this exercise, you will need a harness, a double fall arrest lanyard and a sling.

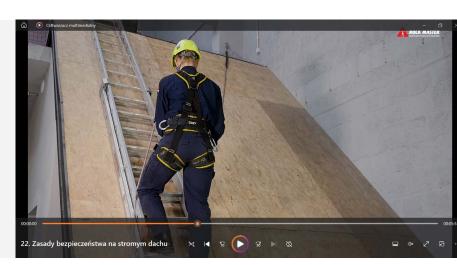




Safe work on sloped roofs while installing PV panels



Instructional 2D and 3D videos show how to properly use fall protection while performing installation works.



VRAPP at Height makes it possible to practice installing PV panels on a sloped roof while using fall arrest equipment.



To perform this exercise, you will need a harness, three ropes of 30 m, some fall arresters and rope protectors.

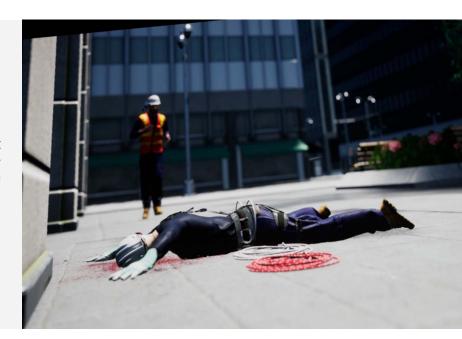




Accidents while working on ropes



The video shows a fall from a height as a consequence of not using fall protection or using it incorrectly, e.g., with a too long lanyard or where a swing fall is a possibility.



VRAPP at Height makes it possible to stage a fall from height and demonstrate the results.





THE TELECOMMUNICATIONS INDUSTRY



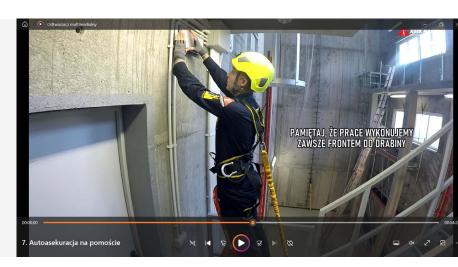
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Self-belay while working from a ladder on a roof near a telecommunications antenna

VRapp at Height

Instructional 2D and 3D videos show how to protect yourself from a fall while working on a ladder placed on a platform surrounded by railings or on a roof.



VRAPP at Height makes it possible to practice maintenance work on a device only accessible via a step ladder standing on a platform.



To perform this exercise, you will need a harness, an adjustable lanyard, a tape sling, a pulley roll with some rope.

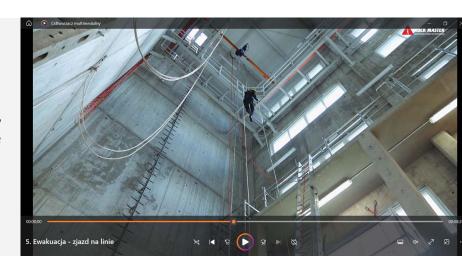




Evacuation/descent from a base transceiver station



Instructional 2D and 3D videos show how to perform an unassisted rescue descent.



VRAPP at Height makes it possible to practice unassisted descent from a base transcevier station.



To perform this exercise, you will need a harness, a descent and rescue device, a fall arrest lanyard.





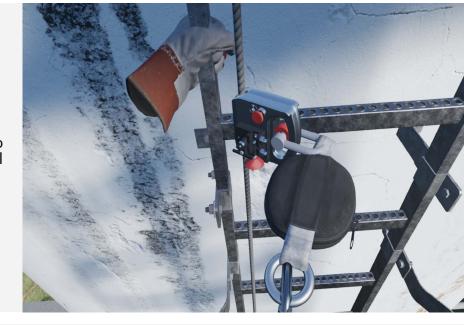
Climbing onto a chimney on a fixed ladder with a steel cable



Instructional 2D and 3D videos show how to use fall protection while climbing on a chimney equipped with a rigid steel cable guideline.



VRAPP at Height makes it possible to practice using the Tracker device as fall protection while climbing a chimney.



To perform this exercise, you will need a harness, and a Tracker fall arrester.



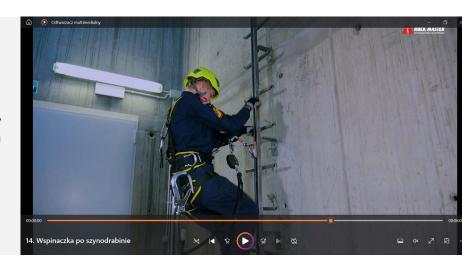




Fall protection while climbing onto a base transceiver station on a safety ladder

VRapp at Height

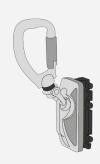
Instructional 2D and 3D videos show how to climb a base transceiver station while using a vertical safety system.



VRAPP at Height makes it possible to practice using fall arrester for a rigid rail system while climbing onto a base transceiver station.



To perform this exercise, you will need a harness and the Slider fall arrester.



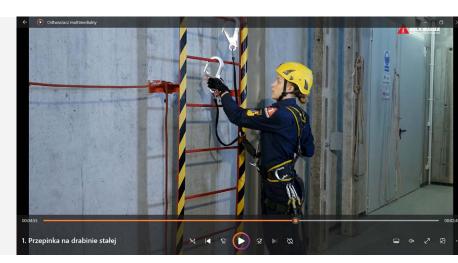




Fall protection while climbing on a fixed ladder onto a base transceiver station



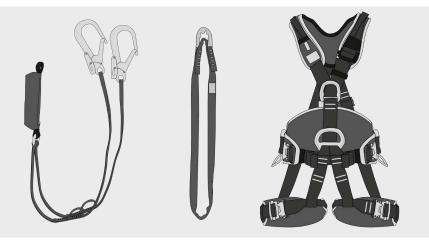
Instructional 2D and 3D videos show how to correctly protect oneself from a fall while climbing a fixed ladder using a double fall arrest lanyard.



VRAPP at Height makes it possible to practice onto a base transcevier station using an external fixed ladder and a double fall arrest lanyard and setting up an anchor for suspension work.



To perform this exercise, you will need a harness, a double fall arrest lanyard and a sling.

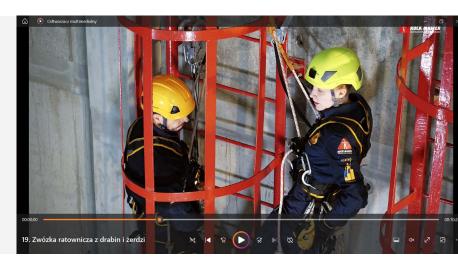




Rescue from a cage ladder at the training site



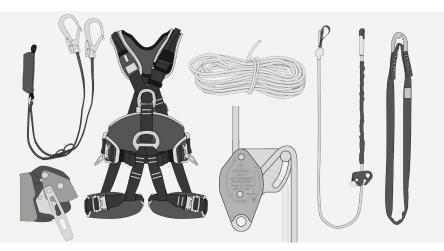
Instructional 2D and 3D videos show how to perform a rescue using a descent device when the casualty is stuck on a cage ladder.



VRAPP at Height makes it possible to practice using the counterweight method to free and lower a casualty stuck on a cage ladder.



To perform this exercise, you will need: a fall arrester, a descent device, 2 ropes of 30 m, some tape slings, and a work positioning lanyard.

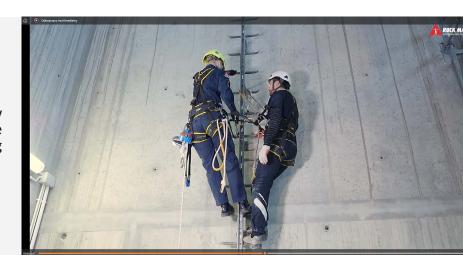




Descent rescue using an automated descent device at the training site

VRapp at Height

Instructional 2D and 3D videos show how to perform a rescue procedure using an automated device for lifting and lowering.



VRAPP at Height makes it possible to practice a rescue procedure using an automated device for lifting and lowering at a virtual reality training site.



To perform this exercise, you will need a harness, a descent device, a work positioning lanyard, some tape slings, and a double fall arrest lanyard.

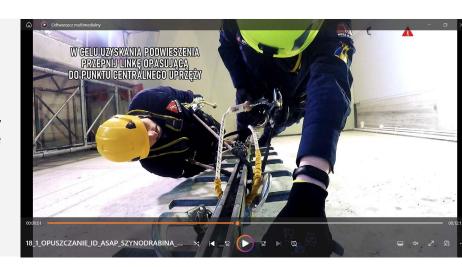




Descent rescue using a descender at the training site

VRapp at Height

Instructional 2D and 3D videos show how to perform a rescue procedure using a descent device.



VRAPP at Height makes it possible to practice lowering a casualty off a safety ladder using a descent device.



To perform this exercise, you will need: a fall arrester, a descent device, 2 ropes of 30 m, tape slings, and a work positioning lanyard.

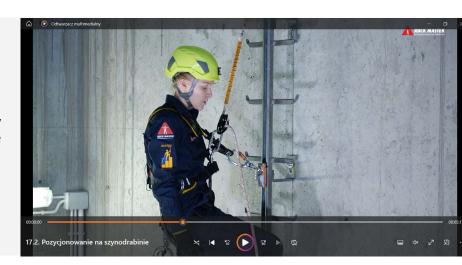




Work positioning at the training site



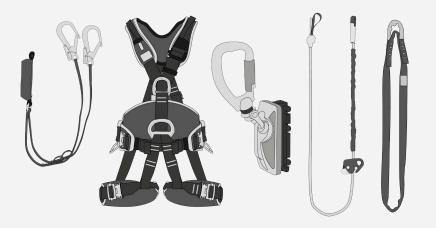
Instructional 2D and 3D videos show how to set up an anchor system for safe work positioning.



VRAPP at Height makes it possible to practice using a work positioning lanyard to set up a worksite on a safety ladder.



To perform this exercise, you will need a harness, a double fall arrest lanyard, a tape sling, a work positioning lanyard, and a fall arrest slider.

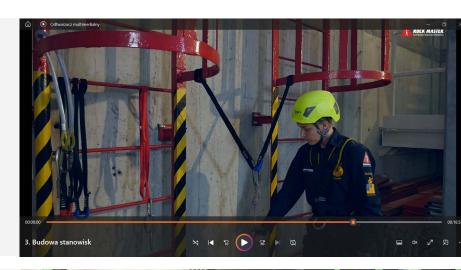




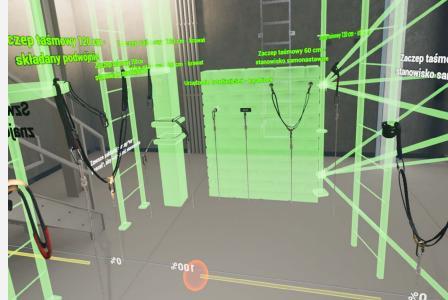
Anchor point rigging



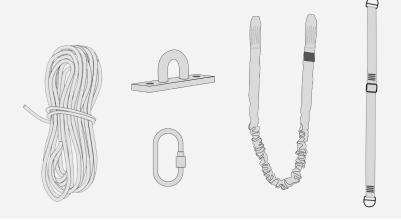
Instructional 2D and 3D videos show how to rig correct anchor points and anchor point systems.



VRAPP at Height makes it possible to practice rigging anchor points and anchor point systems correctly.



To perform this exercise, you will need: tape slings, ropes, connectors, lanyard slings, anchor plates.





THE ENERGY INDUSTRY

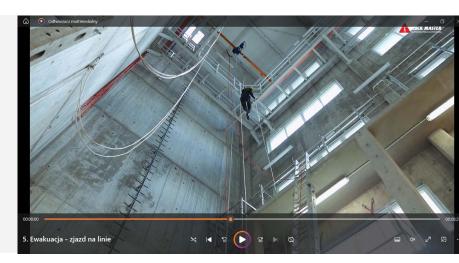
	(vkapp)
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Evacuation/descent from a power pole



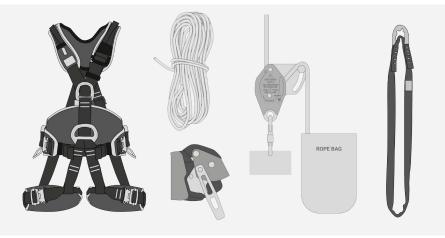
Instructional 2D and 3D videos show how to perform an unassisted rescue descent.



VRAPP at Height makes it possible to practice unassisted descent from a power pole.



To perform this exercise, you will need a harness, a descent and rescue device, a fall arrest lanyard.

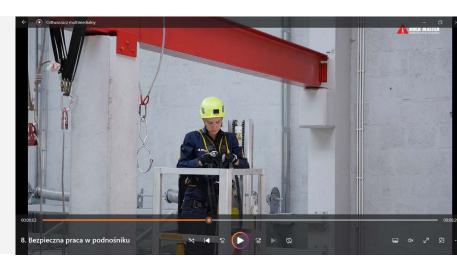




Working on lifts on power poles



Instructional 2D and 3D videos show how to safely work and stay protected from falls from height while working from a personnel lift.



VRAPP at Height makes it possible to practice installing an anchor point at height using a personnel lift.



To perform this exercise, you will need a harness, an adjustable fall arrest lanyard and a sling.

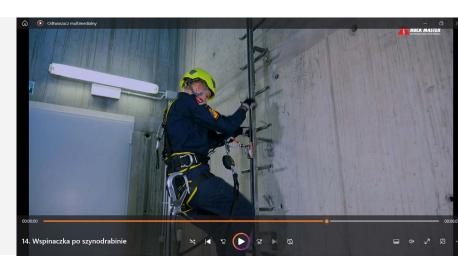




Fall protection while climbing a safety ladder onto a chimney



Instructional 2D and 3D videos show how to climb a chimney while using a vertical rigid rail safety system.

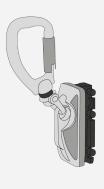


VRAPP at Height makes it possible to practice using fall arresters for a rigid rail system while climbing onto a chimney.



To perform this exercise, you will need a harness and the fall arrest slider.







Fall protection while climbing on a step ladder onto a power pole



Instructional 2D and 3D videos show how to protect oneself from a fall while working on a step ladder propped up against a pole.



VRAPP at Height makes it possible to practice fall protection while climbing a ladder and rigging a safe anchor system for work.



To perform this exercise, you will need a harness, a fall arrest lanyard, a work positioning lanyard, a rope and a fall arrester, some tape slings.

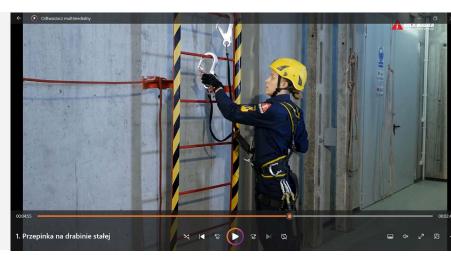




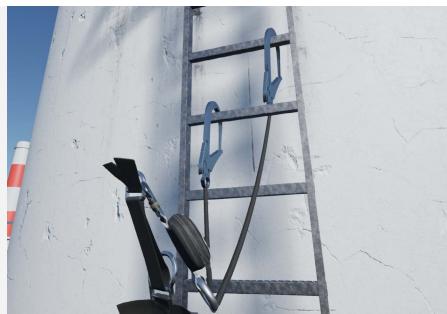
Fall protection while climbing on a fixed ladder on a chimney



Instructional 2D and 3D videos show how to correctly protect oneself from a fall while climbing a fixed ladder using a double fall arrest lanyard.



VRAPP at Height makes it possible to practice climbing a chimney using a fixed ladder and a double fall arrest lanyard and setting up a safe anchor system for suspended work positioning.



To perform this exercise, you will need a harness, a double fall arrest lanyard and a sling.

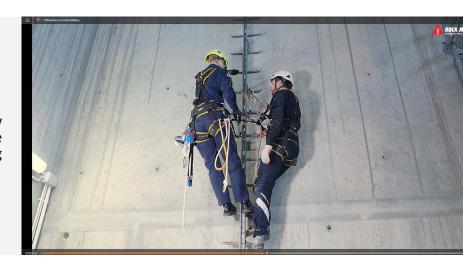




Descent rescue using an automated descent device at the training site



Instructional 2D and 3D videos show how to perform a rescue procedure using an automated device for lifting and lowering.



VRAPP at Height makes it possible to practice a rescue procedure using an automated device for lifting and lowering at a virtual reality training site.



To perform this exercise, you will need: a descent device, a work positioning lanyard, some rope and a fall arrester, some tape slings.





Descent rescue using a descender at the training site



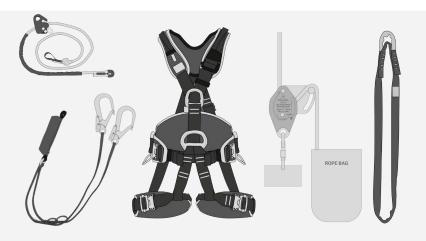
Instructional 2D and 3D videos show how to perform a rescue procedure using a descent device.



VRAPP at Height makes it possible to practice lowering a casualty from a concrete pole using a descender.



To perform this exercise, you will need: a fall arrester, a descent device, 2 ropes of 30 m, tape slings, and a work positioning lanyard.





Climbing onto a chimney on a fixed ladder with a steel cable



Instructional 2D and 3D videos show how to use fall protection while climbing on a chimney equipped with a rigid steel cable guideline.



VRAPP at Height makes it possible to practice using the Tracker device as fall protection while climbing a chimney.



To perform this exercise, you will need a harness and the Tracker fall arrester.







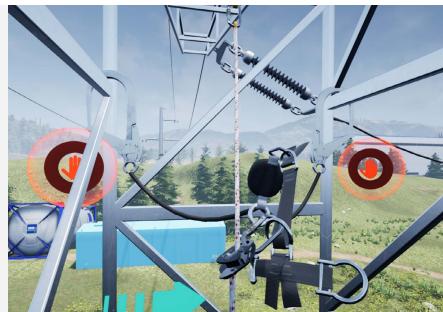
Work positioning at the training site



Instructional 2D and 3D videos show how to set up an anchor system for safe work positioning.



VRAPP at Height makes it possible to practice using a work positioning lanyard to set up an anchor system for work.



To perform this exercise, you will need a harness, an adjustable fall arrest lanyard and a sling.





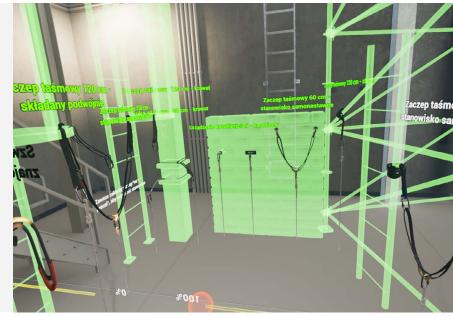
Anchor point rigging



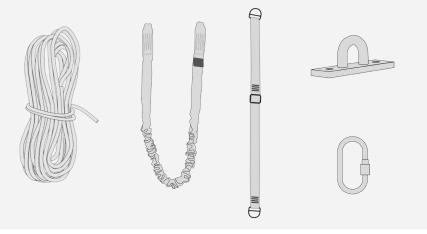
Instructional 2D and 3D videos show how to rig correct anchor points and anchor point systems.



VRAPP at Height makes it possible to practice rigging anchor points and anchor point systems correctly.



To perform this exercise, you will need: some tape slings, ropes, connectors, sling lanyards, anchor plates.





WORK ON WIND TURBINES

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Rescue from a wind turbine



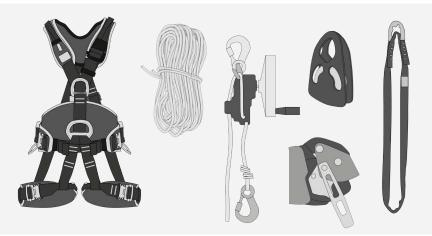
Instructional 2D and 3D videos show how to perform a descent rescue from a wind turbine.



VRAPP at Height makes it possible to practice a rescue procedure using an automated device for lifting and lowering at a virtual reality training site.



To perform this exercise, you will need: a rescue and lowering device, two ropes of 100 m each, a pulley roll, and some tape slings.

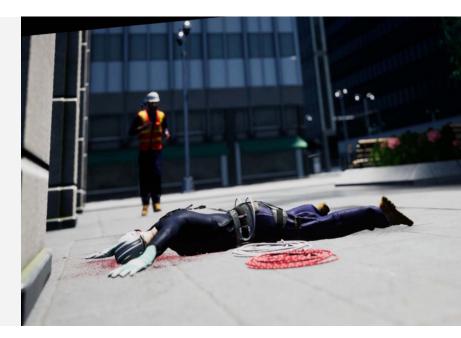




Accidents while working on ropes



The video shows a fall from a height as a consequence of not using fall protection or using it incorrectly, e.g., with a too long lanyard or where a swing fall is a possibility.



VRAPP at Height makes it possible to stage a fall from height and demonstrate the results.





PUS - TRAINING SHARING PLATFORM



The PUS is a tool that allows the sharing of training scenarios. The platform offers several access levels: for distributors, operators, business clients and individuals. PUS is managed by an Administrator account that allows you to create and edit distributor accounts.

The distributor level allows one to set up a client network of operators – the operators search for end customers and organize trainings. Access to training scenarios is granted by the admin by way of a term license for a specified number of devices/users. Acting within their rights, the distributor grants sublicenses to their client operators. The licenses are exclusive or nonexclusive, and cover a given territory such as: several countries, one country, region or industry, e.g. construction, energy or a large corporate client.

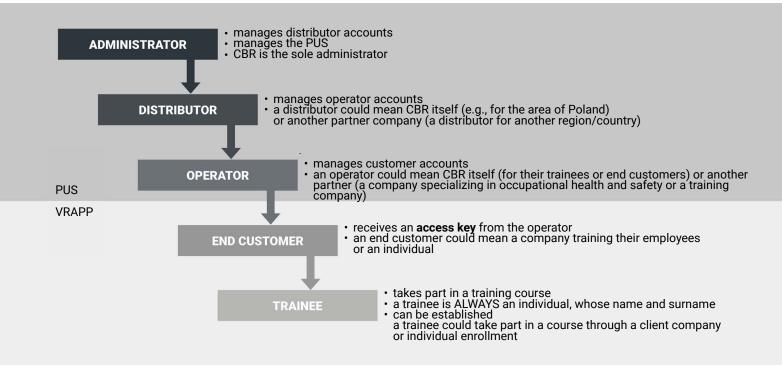
The operator level allows one to sell directly to business end customers for whom trainings are organized.

End customer - a customer who acquires the right to be trained in a VR application. The end customer may be a company that conducts training for its employees or an individual. The end customer does not have access to PUS. The customer receives a training code from the operator to use in the VR application.

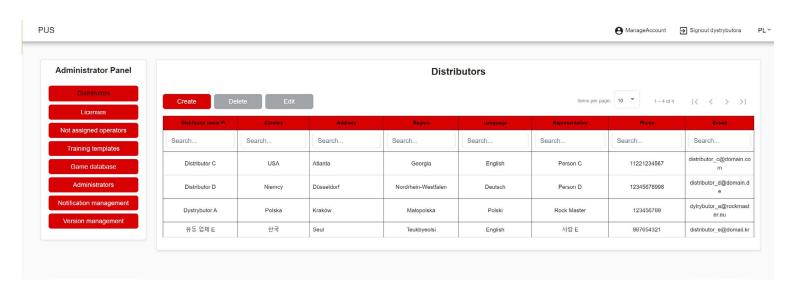
Student - a person who undergoes training in a VR application. The student may be an employee of the company that is the end customer, or he may be a private person. The student is always a single person, known by name and surname. The student does not have access to PUS.

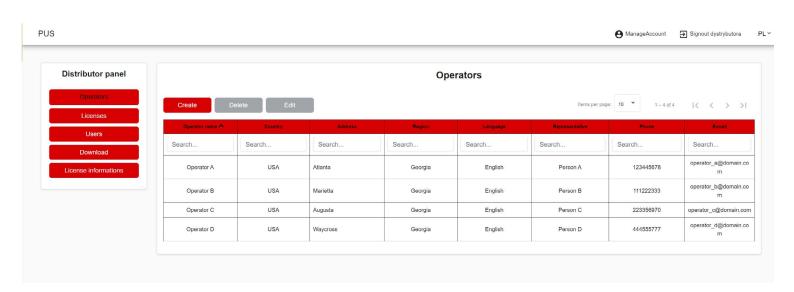
Thanks to automated translation, VRAPP at Height could be accessed in any language. Currently available languages are German and English.

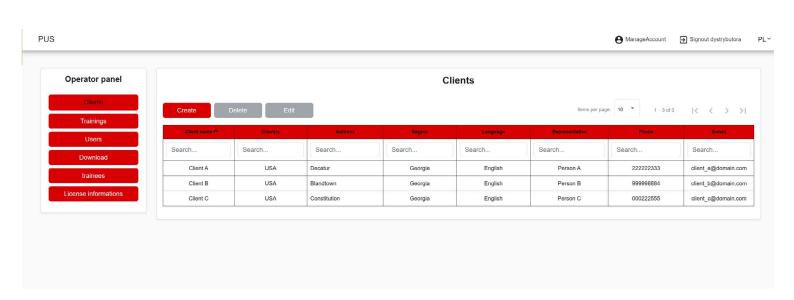
The PUS is structured as follows:







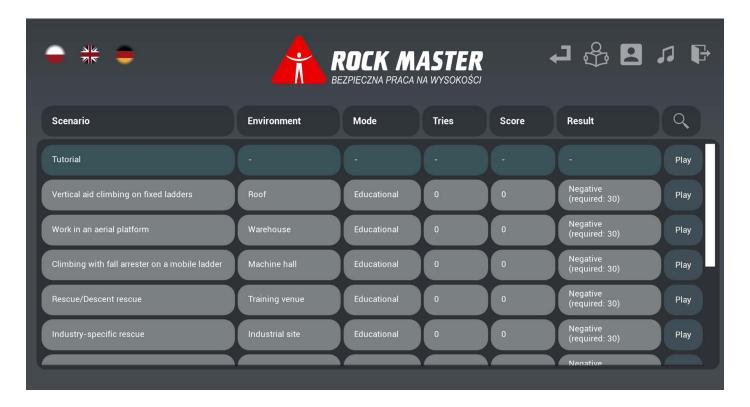


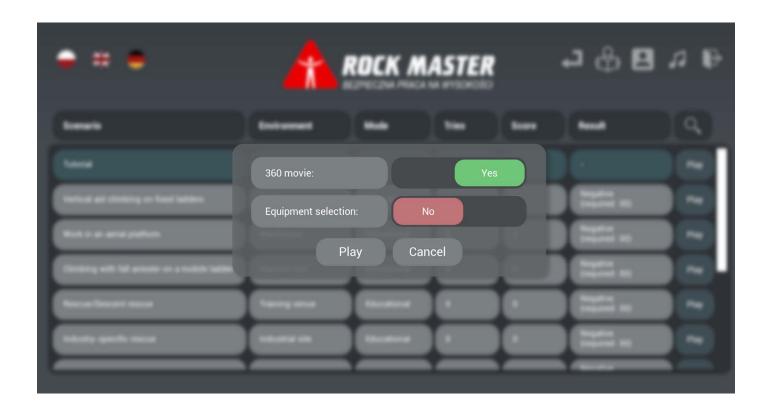




Program windows











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