Ropes That Rescue is proud to announce the third annual Ohio INDUSTRIAL RESCUE WORKSHOP in tandem with the first ever Ohio STRUCTURAL-TOWER RESCUE WORKSHOP the following week. Space is very limited in both programs and we are only taking the first 12 applicants who have fully registered. Tuition: $1,250. Registration for this program is through Ropes That Rescue in Arizona. See Application for details. If registering for both programs, deduct $250 from the total cost of both.

This IRW Program:
The Industrial Rescue Workshop is an in-depth, hands-on course, emphasizing structural rescue from difficult locations in an industrial setting and above ground tower environment. The workshop will differ from other RTR rescue programs in that it will concentrate on both bottom up (less emphasis) and top down rescue scenarios (more emphasis). The workshop relies on extensive knotcraft skills and lashing, whipping and frapping. Also, a heavy reliance on frame building using the Rock Exotica Arizona Vortex is expected. A couple full AZV kits are available making the multiple advanced set ups possible.
The industrial venues for the IRW are by far THE BEST ever! Liaison Brian Harting of Northeast Ohio Region Two USAR Task Force has done a stellar job of obtaining our multiple rope rescue training sites for this extensive workshop. Brian coordinates the dates each year for this program with the Progressive Field (home to the Cleveland Indians) so that we can have a few days to use the stadium. We are also sometimes able to use the Glenn Research Center at NASA (you must be US citizen to gain access to NASA). Also we try and get out to the Holden Arboretum which is a huge wooden viewing platform rising above the forest canopy.

Extensive use of the Rock Exotica Arizona Vortex and Skyhook® Capstan Winch (if avail.) with both power head and cordless drill are realized in this frame-intensive workshop. Exercises involving cantilevered A frames, double A frames, and paradoxical luffing A frames along with winch rigging stands and pods are all part of the IRW at these venues in Cleveland. This, with the teaching of high angle offsets throughout the workshop, make this the industrial rescue program to attend.

This OHRW Program:
The Offset-Highline Rescue Workshop (OHRW) in Cleveland will be taught on exclusively within industrial venues, with no wilderness sites. We will be taking advantage of all the great venues that Brian Harting has arranged in and surrounding Cleveland, Ohio. These venues will possibly include: Progressive Field, the Holden Arboretum, the Glenn Research Center at NASA and a number of Cleveland bridges including the Hope Memorial Bridge (AKA the Lorain-Carnegie Bridge).

The OHRW is an entry-level workshop requiring no prerequisites however it is recommended that the participant have basic rope work, knotcraft and rescue knowledge to get the most out of this program. It is not for beginners.

The OHRW teaches the minor and major offsets to high angle evacuations. “Minor” offsets are the 1) Tag line and the 2) Guiding line. The “major” offsets are the 3) Tracking lines, 4) Deflection lines, 5) Skate blocks, and 6) Two rope offsets. All of these can be executed off of tall buildings, towers, bridges and any other structure. Offsets can replace the complexity of the highline and be a good alternative in rescue without a departure from already established protocols.
Highlines require special training which is where the OHRW heads next. They can be divided into two basic categories: 1) high tension highlines and 2) low tension highlines. The spanning element in these highlines is called a trackline and the tighter this trackline is, the more force is exerted on the anchors at either end. The OHRW, as an entry level workshop, concentrates on low tension highlines exclusively—generally where the trackline is at a maximum angle of 150° or less.

(Above 150°, we enter the realm of the high tension highline which is a province of the Advanced Skills Rescue Workshop. These are sometimes referred to as “Kootenay Highlines” due to the precautions that must be taken to maintain a good safety factor).

Low tension highlines are therefore easier to construct and use, for the most part, the same rope, equipment and practices that are found in the standard high angle technical evacuation (similar to the previously covered offsets).

Offsets, when compared to low tension highlines, are operated at even a lower angle of 120° or less. Hence, they are even more user friendly and can attain a high safety factor. Students will gain valuable insight into which discipline, offset or highline, works the best for a particular situation given certain parameters.

There are extensive lectures on physics, pulley systems, artificial high directionals (AZ Vortex) and more in the OHRW. Some of these lectures are a repeat from those found in the preceding IRW.

NOTE concerning certain venues:
There are any number of good venues that are being sought for the OHRW (and the IRW) and none of them are guaranteed to be available for our use. We are also hoping to get onto some power transmission towers with the local utility but the permissions are hard to obtain. RTR cannot guarantee that
we will be able to train on any of the venues shown here.

**LIAISON for Ohio:**
The Cleveland-based program liaison is Brian Harting at bharting.ohr2@gmail.com. Brian’s cell is (440) 552-1134. He can answer questions about lodging, etc.

**DISCOUNT ACCOMMODATIONS:**
Ohio Liaison, Brian Harting has established the [Hyatt Place Cleveland/Independence](http://independence.place.hyatt.com/en/hotel/home.html?corp_id=g-ROPE) (in Independence, OH) as the discounted hotel for students to get their rooms for this training. The Group Title is ROPES THAT RESCUE. The Group Code is “G-Ropes”. Rate is $109 per night inclusive of a hot breakfast each morning. Cutoff date and time: ALL reservations must be confirmed by Friday, August 10, 2019 at midnight to ensure availability and the discounted rate. Any rooms not booked by this time will be released back to the hotel for general sale. DO NOT delay.


RTR web site APPLICATION: [Click here](http://www.ropesrescue.com) (need separate application for each program)

Required EQUIPMENT LIST: [Click here](http://www.ropesrescue.com) (both programs)

**KNOTCRAFT to know for this Ropes That Rescue program (to get you started)**

It is advised that you be familiar with some of the knots, bends and hitches we will be using in this workshop. It is always best to have some under your belt before arriving. Much of the workshop you are attending depends in large part on the roped and webbing connections YOU form! Don’t worry so much at this time about the somewhat exotic knots like the retraced double bowline but concentrate on the easier figure of eights and simple bowlines. We will be going over many many different knots which are somewhat useful for rigging. Be prepared to tie some new ones!

Here is a list to get you started:
- Figure of eight on a bight
- Butterfly knot
- Double overhand stopper
- Double overhand noose
- Inside bowline with retrace
- Bowline with a bight
- Doubled long tail bowline
- Bowline on a bight
- Water knot in webbing
- Water bend in webbing
- Munter hitch
- Clove hitch
- Becket Bend
- Double becket bend