ENOUGH ROPE

Most guidebooks recommend carrying a length of rope in your kit, but do you really know what to do with it? Far from a dying art, knot tying is an ancient and valuable skill that could one day save your life – or someone else's.

WORDS GEMMA BLACK

T WAS JUST a really ugly situation – a quick knot saved his life," says Glen Nash, Operations Director at the Australian School of Mountaineering (ASM), recalling a frightening near-miss during a rock climb in his local Blue Mountains, NSW, about 20 years ago.

An avid climber since the 1970s, Nash started working as an instructor with the ASM in 1981, and has led expeditions all over the world. One particular ascent, however, stands out in his memory.

Nash was guiding a rock-climbing course, sharing the cliff face with a separate group of climbers, when disaster nearly unfolded before his eyes. As he watched on, a second climber in the other group – seemingly inexplicably, Nash says, except for a combination of inexperience and miscommunication – unclipped the rope from his harness. The lead climber then proceeded to pull in the rope, leaving his follower clinging to the rock face unsecured and, at almost 20m off the ground, in a potentially lethal situation.



102 | AG Outdoor

"I watched this unfold, and I yelled out to the guy belaying at the top to lower his rope," Nash says. "By then, he'd realised what was going on, having pulled in all this rope with no one on

Having caught on to the seriousness of the situation, the young lead climber lowered the rope back to his companion. However, by the time it reached him, the rope was without any knot for the by-now dangerously anxious climber to clip onto his carabiner.

"I quickly solo climbed up to the kid," Nash says. "I was trying to calm him down, telling him to stay cool because he was literally going to shake himself off the cliff. With one hand, I flicked an overhand knot into his rope and clipped it back into his harness.

1 To me the act of ting a knot is an adventure in unlimited space.

"That young guy was seconds away from losing control and falling off. Luckily, I was just fast enough to get a rope back on him again. He climbed out after that," he recalls.

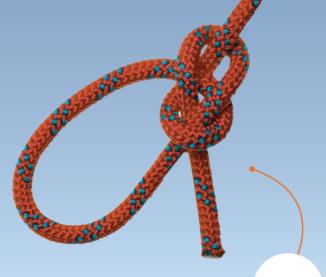
To many, the art of knot tying brings to mind wizened seafarers and adventurers from a bygone era. The likes of Clifford Ashley, born in 1881 in Massachusetts, USA, author of The Ashley Book of Knots published in 1944 – the product of an 11-year labour of love.

"To me the act of tying a knot is an adventure in unlimited space," Ashley wrote. "If we move a single strand on a plane, interlacing it at will, actual objects of beauty and of utility can result... limited only by the scope of our own imagery and the length of the ropemaker's coil."

While Ashley's encyclopedia of knot tying, which remains a classic to this day, describes more than 3800 knots of varying complexities and uses, you don't need to be an enthusiast to make use of the practical benefits of knowing a few versatile knots.

"There are still people out there who know hundreds of knots, whose hobby is working with rope and cord, who write books about knots," says Nash. "But for most practical applications, five or six knots is really all you

104 | AG Outdoor



BOWLINE

THIS ANCIENT nautical knot is named after a rope used on old square-rigged ships. Forming a secure loop at the end of a rope that won't slip under load, the bowline has in the past been used in the place of a harness – including, Nash says, by the original

Sailor and 2004 Australian Geographic Young Adventurer of the Year, Chris Bray says the bowline is his favourite knot. "I use the bowline a lot, sometimes in situations where if it failed, I'd be dead or at least in serious danger," he says. "I trust it to hold me when I climb the mast, to hold up my sail, and to tie my vacht off in a storm."

Being easy to untie when not under load is a key characteristic of a good knot, Nash points out. However, it can also mean such knots have the potential to shake loose when the rope is slack. To avoid this happening with a bowline, "always leave a descent tail on it," says Bray.

"I didn't once, tying the sheet ropes on deck during a violent storm off the NSW coast back in 2006, and it guickly pulled free," he says. "You've no idea the beating that flailing sail dealt me while I clung, terrified, to the mast!"



FIGURE-EIGHT **&RETHREADED** FIGURE-EIGHT

TIE A FIGURE-EIGHT knot by passing the end of a rope over itself to form a loop, then continuing under and around the rope, and back through the loop – the result should resemble a figure eight, hence the name.

The 'rethreaded figure-eight' adds further versatility, and is a popular way for climbers to tie into their climbing ropes, Nash says. "Tie a figure-eight in the end of the rope, then pass it through a climbing harness, and follow it back through to complete the knot," he explains.



THIS SMALL but versatile knot consists of two reverse loops that form a self-tightening hitch, which can be clipped into a carabiner or used to secure a length of rope to a tree or a post. "Loop this simple, self-tightening knot around a bar or rail and you can pull on either end of the rope and she'll stay," explains Bray.

"Climbers will often use the clove hitch to link anchors together, so you can create a belay station," adds Nash. "That's just one of its uses."

"THE ITALIAN HITCH

is a pretty special

knot," says Nash. Also

known as the Munter hitch, it works

by using friction to control the rate

of descent when threaded through

a locking carabiner. It can be used as

a belay system, for abseiling down a

cliff face, or even lowering someone

else down a cliff face (with a sling),

in a rescue or emergency situation,

While other equipment exists for

these purposes, the right gear isn't

which is when knowing a variety of

have just one piece of rope and lots

of different knots for a multitude of

applications," says Nash. "It's about

being lightweight and compact,

always at hand at the right time –

knots comes in handy. "You can

ITALIAN/

MUNTER

for example.



NAMED AFTER its inventor, Austrian Mountaineer Karl Prusik (1896–1961), Prusik hitches consist of a doubled length of rope – ends joined to form a loop using another knot, such as a double fisherman's – wrapped around the climbing rope to form a barrel that can be slid up or down the rope. When loaded, Prusik hitches use friction to 'grab' the rope and lock in place, enabling a climber to ascend or descend a fixed rope, or used as part of a hauling system.

"The French Prusik pretty much is the king of all the Prusik knots," says Nash of this derivative of the original Prusik hitch. The main distinguishing feature of the French Prusik is its capacity to be manipulated or moved under load if necessary.

