



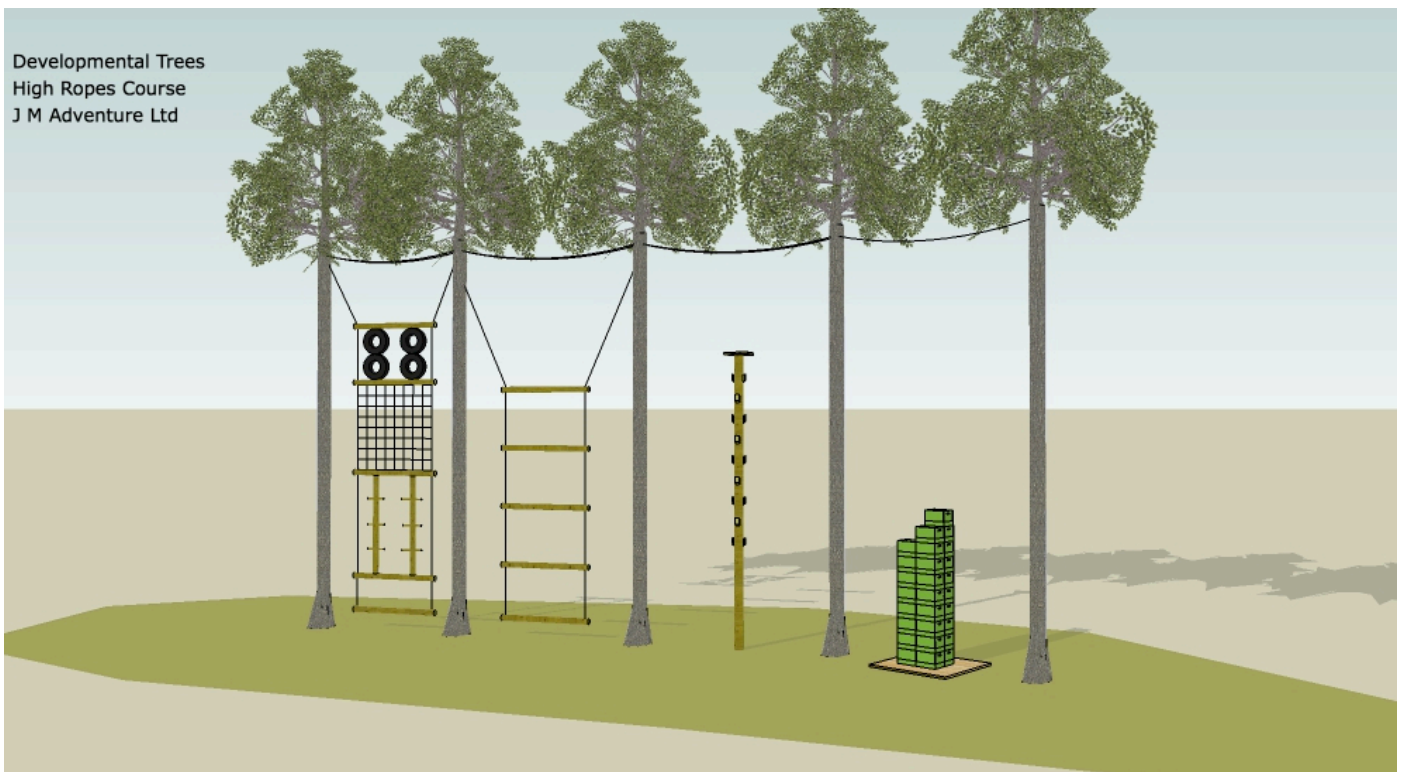
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Developmental Elements in Trees

J M Adventure Developmental High Ropes Elements in trees can be designed to fit your requirements. They can be built in phases or constructed at the same time depending on your budget

Before designing a developmental tree course the following points need to be considered:

- Is there vehicle access to the proposed site
- Do you need to protect the ground from root compaction
- Are there any Tree Preservation Orders (TPOs) or planning restrictions on the trees
- Have the trees been inspected by an experienced arboriculturist
- Do the trees need reducing in size, dead wooding or pruning



Example - left to right - Gladiator Challenge, Jacobs Ladder, High All Aboard, Crate Stack Challenge

Safety on the Course

We recommend that all participants and belayers are equipped with full body harness and helmet. Climbers are belayed using a 'bottom top rope' technique from a static or running Shear Reduction Block (SRB). Static belay points secure the participant whilst climbing vertical challenge elements. The running Belay protects participants whilst traversing or leaping from elements. All belayers are attached to a tested ground belay anchor or running ground belay wire.



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We would recommend a tree inspection be carried out by an experienced arboriculturist for all courses built in trees. This helps to ensure the safety of the course and surrounding area from any falling trees and branches. It is your responsibility to check with your local authority that there are no Tree Preservation Orders (TPOs) on the trees you want to use. **The guide prices allow for the trees to be drilled.**

To protect all safety wires, smaller diameter “sacrificial belay wires” are installed above the safety wires. In some cases the element itself acts as a sacrificial wire. The reduced sag in the sacrificial wire absorbs energy from the trees moving in high winds and protecting the main belay wires.

For courses built in coastal areas or areas prone to poor air quality we recommend stainless steel components and wire. These components increase the material cost by approximately 60%.

Elements - All Prices exclude Vat

Leap of Faith - Platform **£2,900.00**
Pamper Pole **£3,600.00**

Participants leap from a pamper pole or platform and catch a trapeze bar or hit a suspended ball. The bar/ball can be adjusted backward and forward from the ground to vary the length of the jump. This element can be constructed for one or two participants.

Jacobs Ladder **£2,900.00**

A team of four climbers must help each other to ascend seven horizontal poles suspended on wires. The space between the poles increases between each pole.

Crate Stack Challenge **£3,100.00**

A team of four is needed to build a tower from as many as a 80 crates and get as high as they can before the tower collapses. The ground belay points are set back on this element to prevent crates injuring belayers

High All Aboard **£3,300.00**

Up to four participants have to climb a vertical pole on blocks to mount a 60cm square platform. When the team have helped each other onto the platform they will perform various exercises requiring them to trust the group. Another option to climb the pole instead of blocks is to insert aluminium poles into holes in the pole. This ‘Peg Pole Climb’ exercise can be made harder by reducing the number of pegs the climbers have.

Gladiator Challenge **£3,300.00**

This exercise appeals to younger participants. Up to four participants have to race each other up posts, nets, tyres and ropes to ring a bell at the top

Giant See Saw **£3,800.00**

Up to four participants have to climb a vertical pole on blocks to mount a See Saw, two at either end. When the team have helped each other onto the see saw they try to balance the beam by moving up and down.

Traversing Elements **£3,900.00 - 3 x basic traverse elements**

Participants traverse elements requiring balance, confidence and trust. Elements can be built one above the other using the same running belay wire, considerably reducing cost and offering a progressive course.

High V **£2,400.00**

Two Participants ascend and start on an apex tree. Two foot wires attached to the apex tree span gaps to other trees creating a ‘V’ shape. The participants are required to traverse along their respective wires, first holding each others shoulders, then elbows, and finally, they are palm to palm and leaning in to each other as the gap between the wires widens. We try to install this exercise so that it is impossible to achieve. Using this technique, nobody wins and nobody loses.



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Developmental Elements in Trees

Features:

- Conforms to EN 15567-1 “safety requirements and test methods”
- 12mm 7x19 Galvanised Belay Wire Cables
- Safety signage to European Ropes Course Association (ERCA) standard
- Stainless steel sheer reduction blocks
- Twin wheel 12mm truck / trolley for running belays
- Vertical rope & staples for un-belayed instructor access
- Sacrificial belay wires
- Pressure treated timber poles and platforms where required
- Standard Operating Procedures (SOP's)
- Tested ground belay anchors & wires
- 16mm steel core combination hand ropes and nets
- Removable or retractable elements to prevent unauthorised access when the course is not in use

Optional Extras:

- Manual all ability hoist/disabled winch
- Optional peg pole climb on Pamper Poles, Leap of Faith, High All Aboard & Giant See Saw
- Arboriculturist Inspection (please contact us for more details)
- Dead wood clearing from the trees
- Fencing around the course

Dimensions:

- Height - Dependant on trees
- Distance between trees - With exception of the Jacobs Ladder and Gladiator Challenge, the elements require an approximate space between trees of 8m - 20m. Jacobs Ladders and Gladiator Challenge require approximately 4m to 8m
- Ground Space required - Dependant on the number of elements on the course. We recommend 4m either side of the element for ground belay anchors
- Build Time - Approximately one element a day

Extra Costs for Consideration:

- Personal Protective Equipment (PPE). Please contact us for a competitive quote. Please note that the HSE working at height regulations require staff to use industrial access full body harnesses for in-house inspections and maintenance.
- Accommodation for Construction Engineers whilst on site if this cannot be supplied by the client
- Mileage to and from site - 50p per mile x 2 work vehicles
- Flights, airport parking, connections and ferry costs were applicable
- Inaugural Inspection - Optional but recommended - European Ropes Course Association (ERCA) - See Below
- Annual Inspection cost
- Ground Preparation and Covering - See Below
- Site Specific Training - See Below
- Fencing, footpaths and landscaping
- Insurance
- Arboriculturist tree inspection



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Ground Cover & Surrounds

We recommend using a 10mm washed and rounded pea gravel because it has good drainage and does not mulch down and require topping up like bark wood chippings. If you would prefer wood or bark chip please ask for a quote. The covering is 100mm deep as a minimum, laid on a geotextile membrane to prevent foliage growing through and enclosed in a treated timber surround.

Training

WARNING - All staff likely to be involved in the safe operation of a ropes course must attend a full site-specific ERCA training course. Additionally staff should be given plenty of time to familiarize themselves with the course, practice rescue scenarios, accessing and in house inspections.

Failure to implement the above may result in serious injury or death.

We would recommend staff be trained, assessed and certified by Vertex Training, a professional and established ropes course training company. Training will include operational procedures of the ropes course, correct use of PPE, access, inspections and rescues, challenge by choice and development skills. The duration of the training course will depend on the experience of the staff using the course. Training programmes accommodate up to ten members of staff to attend a site-specific training course. The daily training rate is £400.00 + Vat per day plus mileage at £0.46 per mile and accommodation costs.

Please contact us for a full quote or for more information call Vertex Training on 01929 480 920 or email enquiries@vertex-training.co.uk

We strongly recommend that once you have a start and completion date for the construction of your ropes course you book your training course.

Inaugural Inspection - Optional - Recommended

To ensure your new course complies with European Ropes Course Association (ERCA) standards, EN 15567-1 “safety requirements and test methods” and EN 15567-2 “operational requirements” the structure and supporting paper work needs to be independently checked by a Part A ERCA inspector. The course will need to be inspected on completion of the construction phase.

Note

Prices are correct as of July 2014 and are subject to change at any times. Prices are subject to the site being suitable, well drained, have good access, and normal ground conditions. For further information please contact JM Adventure.