



J M Adventure Ltd, Anvil Barn, Southcliffe Road, Swanage, Dorset, BH19 2JG,  
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## Aerial Trekking in Trees

### Aerial Trekking

Traditionally the 'Cows Tail or Aerial Trekking Course' caters for all ages and abilities with the emphasis on fun. Having completed an induction and safety brief participants ascend to a start platform before traversing from element to element whilst being attached to a safety cable. Once completed there are many options for descent including Zip Wires and Fan Descenders

You may wish to grade areas of your course using colours schemes similar to a ski run to indicate the varying difficulty and heights of the elements.

**Please note we are happy to custom design you a course to meet your training and commercial requirements, budget and for the ground space available. Courses can be designed to be constructed in phases to help with developing your course and spreading your budget.**

The guide prices below assume the following:

- The elements guide prices are based on average 8 metre span between trees.
- The proposed site has vehicle access to get a works van close to the Ropes Course.
- There are no Tree Preservation Orders (TPOs) on the trees and that we can drill the trees to anchor elements, platforms and the belay wires
- The prices on the elements below allow for the element, labour, access up one tree, one platform and the 12mm belay wire.
- The element prices do not include large platforms and removing dead wood in the tree.
- All guide prices are exclusive of VAT
- The trees are no less than 300mm in diameter at the highest point of the activity

### Safety Systems on the Course

The traditional method of aerial trekking, using two safety lanyards and Karabiners to pass safely from one wire to the next when passing a tree or pole has the potential to leave the participant exposed to 'double unclips' and therefore at risk of falling from the platforms.

To manage this risk, whilst on the aerial trekking course, J M Adventure offers various 'continual' or 'smart' safety systems. The systems prevent the participant from 'double unclipping'. The mechanics of the devices prevent participants removing themselves from the belay wire until they have safely completed the course. If you require an additional independent system for staff access or to increase participant capacity on the courses we are able to fit a dual system to operate in parallel with the one system.



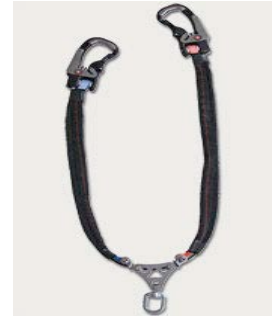
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## Aerial Trekking in Trees

### 1. Bornack Smart Karabiners - Guide price per element - £3,050.00 + Vat [www.youtube.com/watch?v=YPyE\\_QjPThs](http://www.youtube.com/watch?v=YPyE_QjPThs)

- Participants require more time to complete the course at passing points on the trees.
- This system can offer multiple routes for participants on a well designed course
- The system allows the Tarzan Swing element to be included in the design



### 2. Edelrid Smart Karabiners - Guide price per element - £3,050.00 + Vat [www.youtube.com/watch?v=WDeB1R6gJ2c](http://www.youtube.com/watch?v=WDeB1R6gJ2c)

- Participants require more time to complete the course at passing points on the trees.
- This system can offer multiple routes for participants on a well designed course
- The system allows the Tarzan Swing element to be included in the design



### 3. Saferoller Wire System - Guide price per element - £3,850.00 + Vat <http://www.saferoller.com>

- The Saferoller Wire System allows the course route to gain and lose height and include zip wires into nets and short zip wires between platforms.
- As the cable does not need a large steel structure to support itself the courses have less visual impact in sensitive areas.
- The safety cable can remain above the participants as they do not need handle the equipment allowing the participant to focus on the challenge and not be tempted to hold the safety wire.
- Participants are not required to operate any mechanical devices



We would recommend a tree inspection be carried out by an experienced arboriculturist for all courses built in trees. This does not only ensure the safety of the course but of your site from incidences involving falling trees and branches.

If you intend to operate a traditional method for safety an introductory course (up to four elements) allows participants to familiarise themselves with the equipment and exercises from a safe and manageable height. It also gives staff the opportunity to check the participants and assess whether they are confident enough to move to the next level. Introductory courses are not required for the continual or smart safety systems.



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### Sacrificial Belay Wires - Tree Courses Only

To protect all safety belay wires where the element itself acts as a sacrificial wire, a smaller diameter 'sacrificial belay wire' is installed above the primary safety wire. The sag in the sacrificial wire is less than the main safety wire to absorb energy from the trees moving in high winds and protecting the belay wires.

### Course Layout & Design

In order to reduce staff numbers and increase participant footfall we recommend an access tower as a hub for Aerial Trekking Courses. Access towers allow speedy unbelayed and unsupervised access and egress to various levels as well as being able to accommodate developmental / educational elements, Power Fan Descenders, Zip Wires and Climbing Walls.

A circular Aerial Trek Course means the participant can be despatched and met by the same member of staff before and after the course and that the hardware is ready in position for the next participants.

An alternative to the access tower is to use any natural relief in the land (cliff edges and hill sides) to gain height to a start platform.

### Linear or Circuit Course

The advantage to a course following a circuit is that the participant concludes the traverse where they started, consequently a circuit usually requires less staff to assist and monitor participants.

A linear, or series of linear courses gives the participant the sensation that they are on a journey and gives the course a more adventurous appeal. The linear courses inevitably require more staff to monitor participants.

In some instances the lay of the land may dictate the type of course you will have.

### Access, Ascent & Security

For courses built on reasonably flat ground the following means of access and egress can be adopted. Where a course is built in uneven / hilly areas, it is possible to access a course from a high point on the ground and traverse out over sloping ground. This negates the need for participants to ascend and/or descend on a course. For all means of access and egress from the course, the elements/components are removable or retractable to prevent unauthorised access.

- 30 x Staples and self belay device
- Rope Ladder and self belay device
- Scramble Net and self belay device
- Tube Net and self belay device
- Fixed Ladder and self belay device
- Activity Tower

### Descent & Egress

- All the above means of access and ascent can be employed for descent and egress
- Zip Line from trees - approximately 100m excludes brake
- Power Fan Descender from trees



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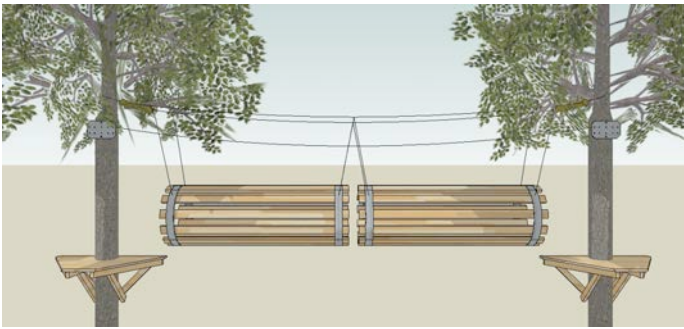
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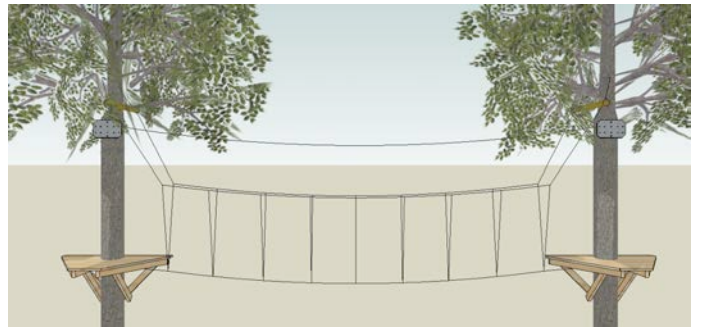
### Platforms

Various size platforms and designs are available depending on the application. The shape and size of the proposed trees will dictate the design of larger group platforms.

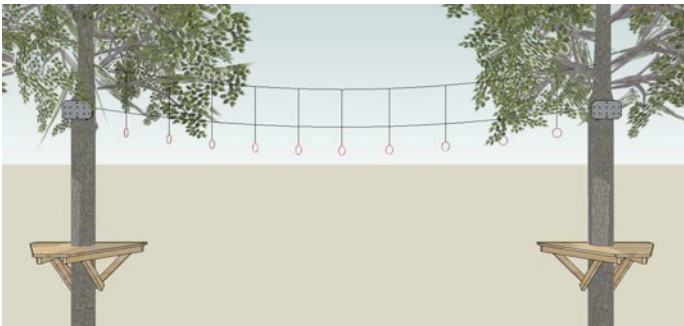
### Elements



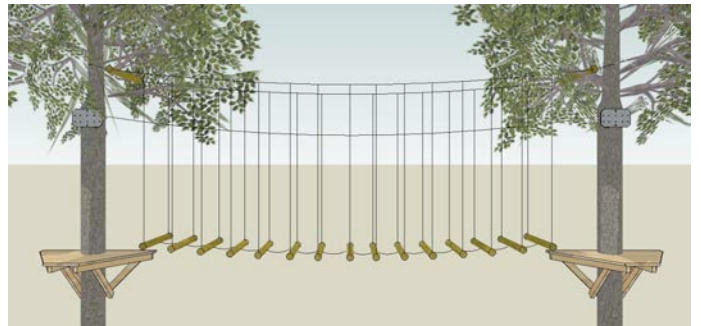
Barrel Crawl



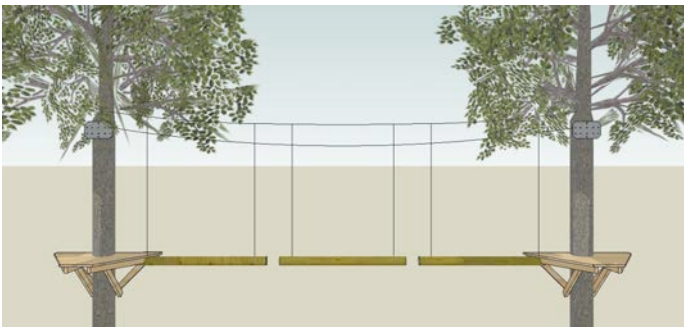
Burma Bridge



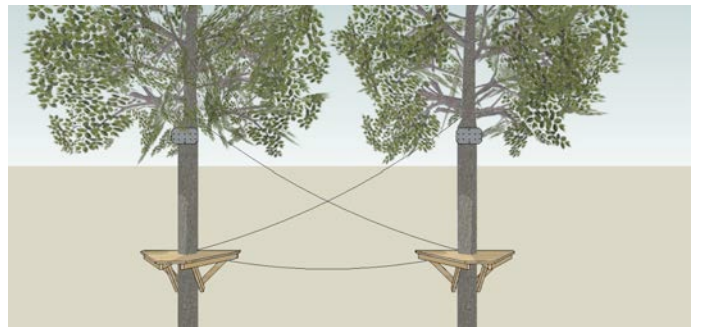
Gladiator Rings



Hanging logs



Knocking Logs



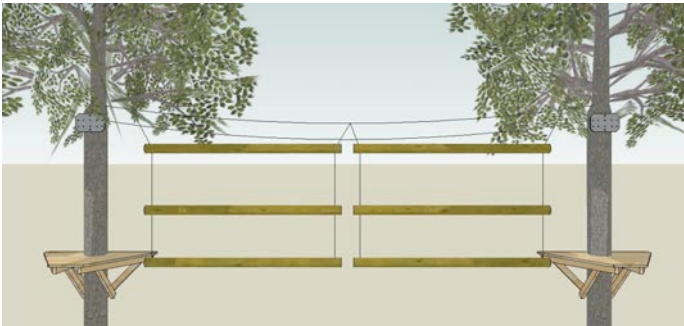
Heebie Geebie



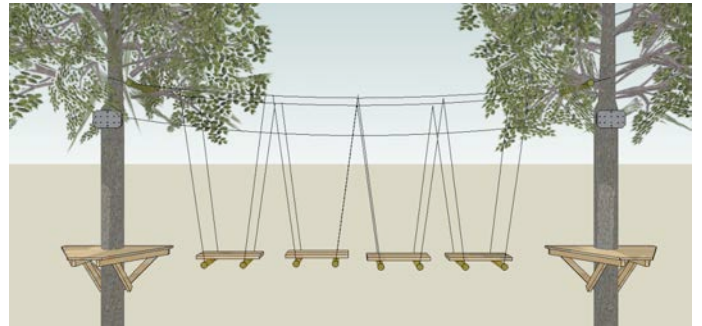
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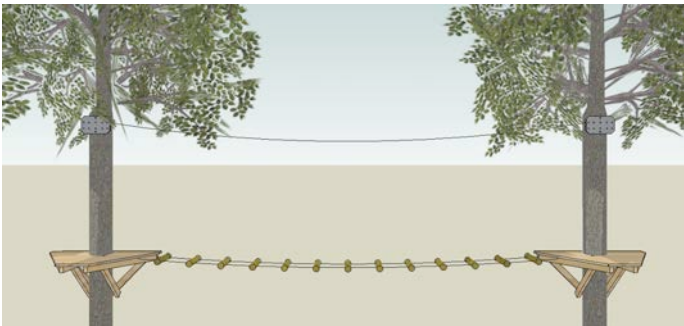
## Aerial Trekking in Trees



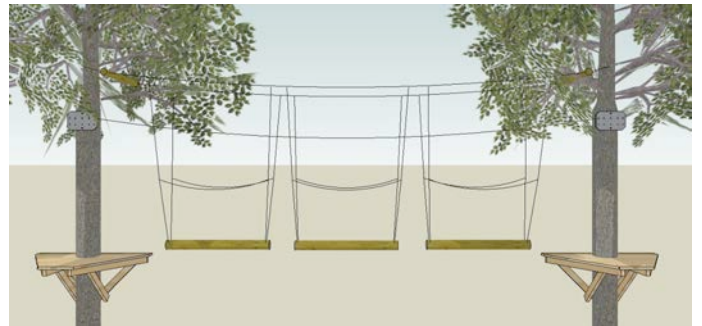
Jacobs Traverse



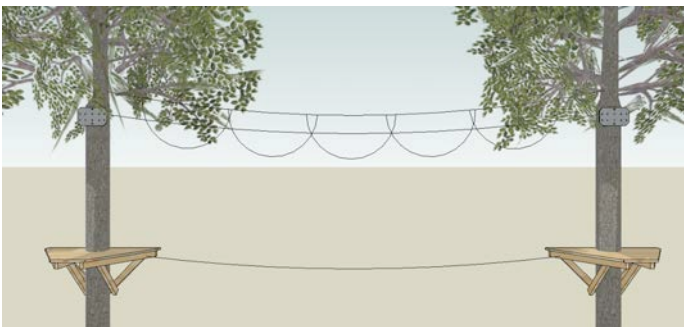
Large Islands



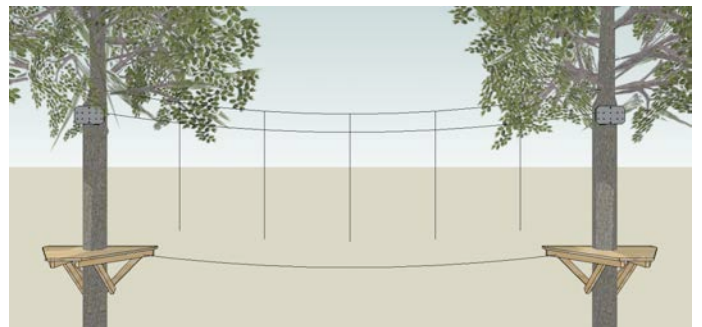
Log Indie



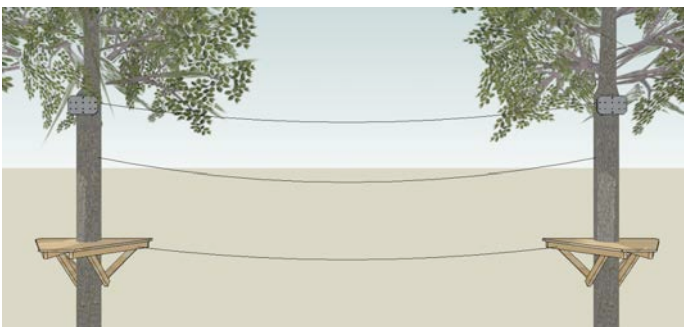
Multi Log Burma



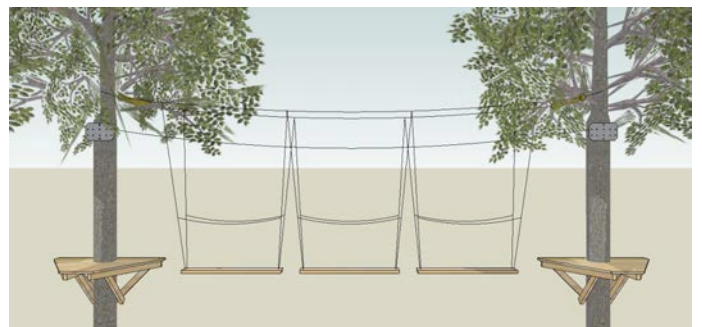
Multi Loops



Multi Vines



Postman's Walk



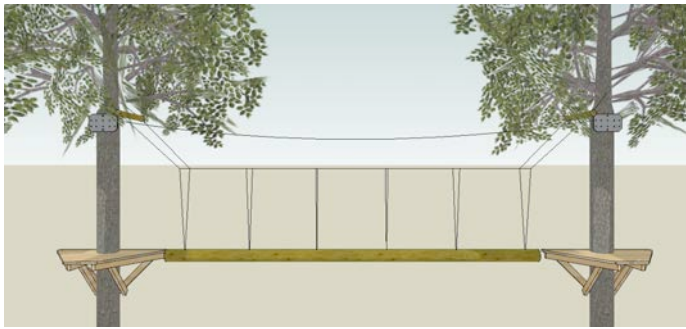
Plank Burma



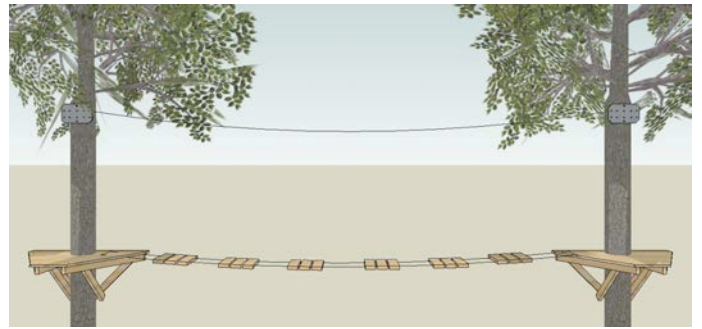
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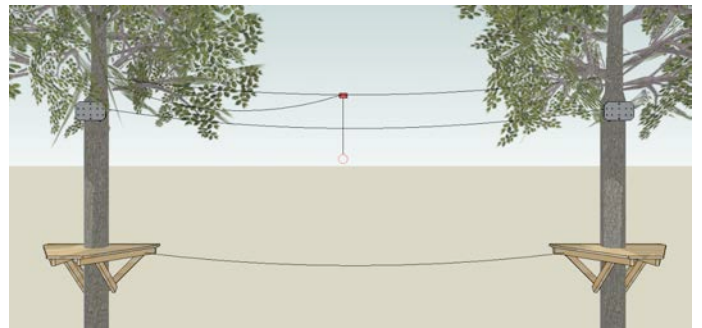
Pole Burma



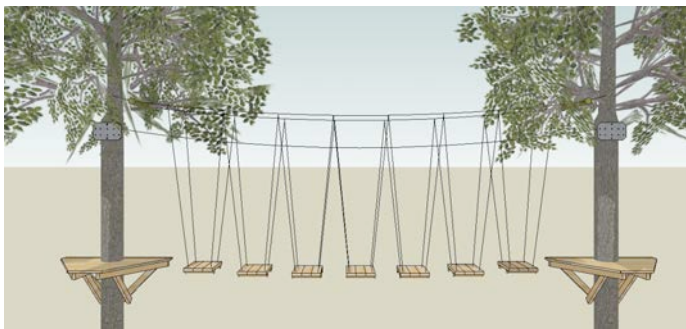
Rickety Bridge



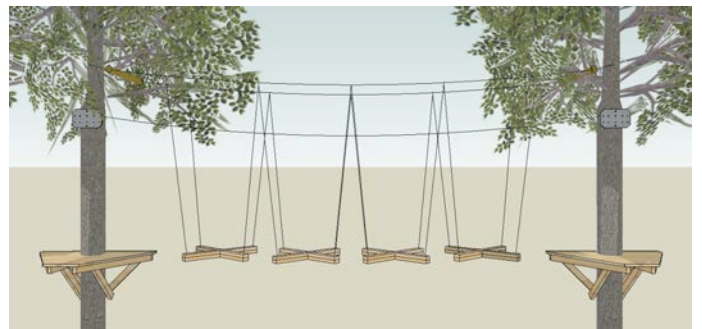
Skipping Ropes



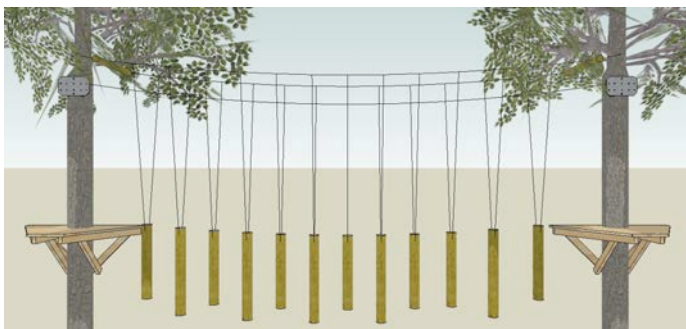
Sliding Vine



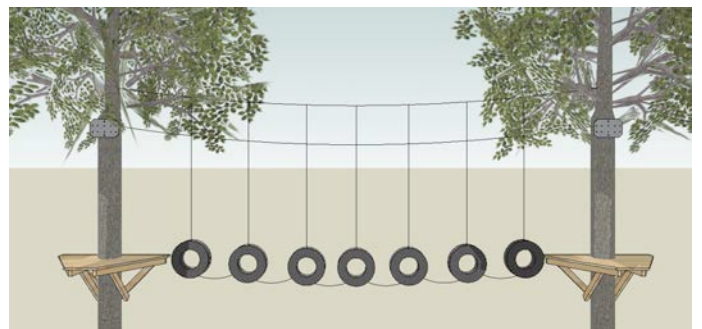
Small Islands



Star Steps



Stepping Stones



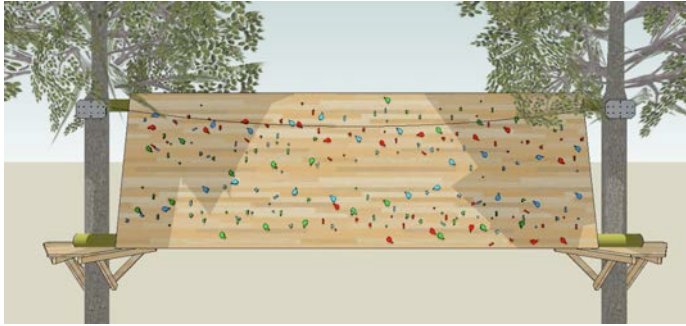
Swinging Tyres



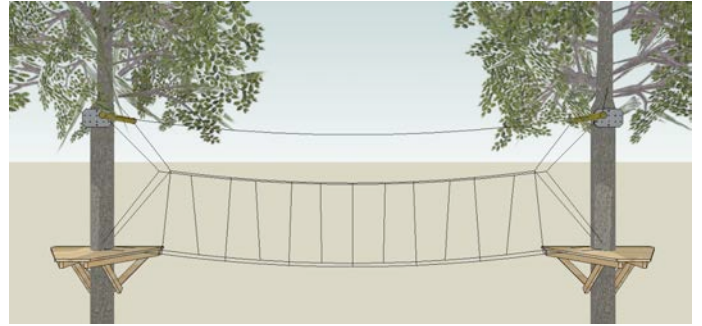
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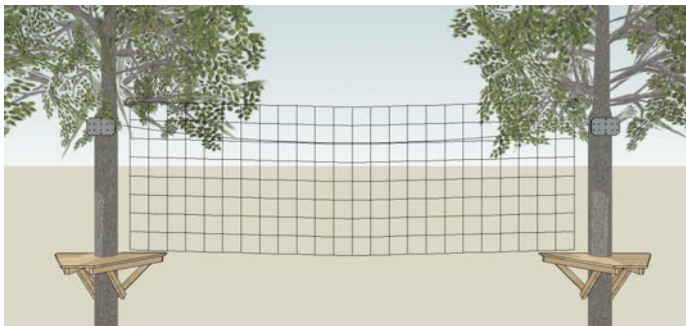
## Aerial Trekking in Trees



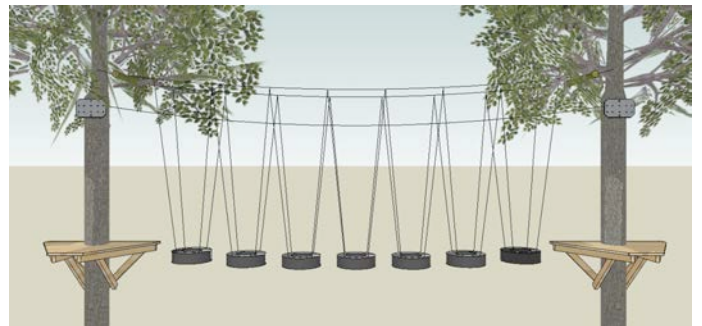
Traverse Wall



The Weave



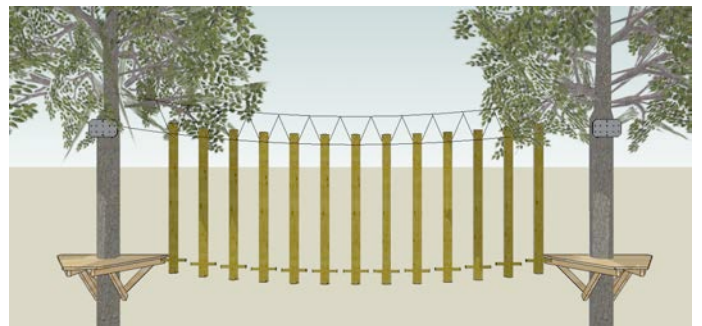
Traverse Net



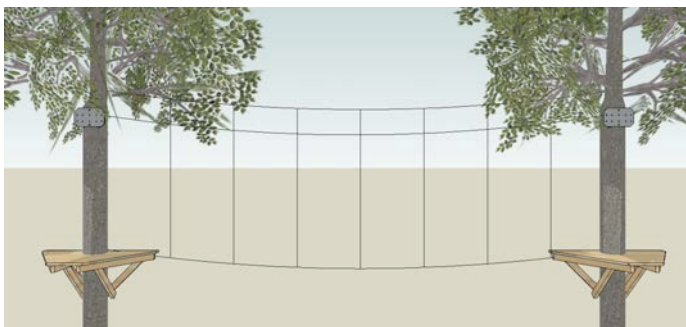
Tyre Islands



Wobbly Log



Wind Chimes



Windows



Zip to Net



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## Aerial Trekking in Trees

### Standard Course Features

- Conforms to prEN 15567-1 <sup>3</sup>safety requirements and test methods<sup>2</sup>
- Platforms on all trees
- Man riding continual Safety System allows access for all abilities and eases access for in house inspections
- 12mm 7x19 Galvanised Zip and Belay Wire Cable
- 25 year warranty on all workmanship
- Vertical Life Lines, a Cablock Ascent Device & Staples for un-belayed, in-house instructor access
- Safety signage
- Retractable or removable lower components to prevent unauthorized access
- 16mm combination hand ropes & Nets ensure longevity
- Trolleys - one per participant with two additional trolleys for instructor access
- Multiple levels for varying ability and exposure
- Painted steel to suit environment or galvanised steel to ensure longevity and reduce future maintenance requirements
- Sacrificial Belay Wires where required
- Treated, slow growing 'select grade' timber for the elements.
- Risk Assessments and Operating Procedures
- 16mm steel core combination ropes or hand spliced Hemp Rope depending on the application

### Optional Extras

- Double Safety System
- Manual All Ability / Disabled Winch
- Climbing / Access Tower with internal stairs
- Static Team Elements in the area inside the circuit - eg. Jacobs Ladder, High All Aboard, Crate Challenge

### Additional Elements and Integrated Developmental Elements

- Power Fan Descender
- Multiple levels of aerial trekking
- Zip Wire
- Gladiator Challenge - Four Person
- High See Saw - Four Person
- Six Person High All Aboard
- High All Aboard - Four Person
- Leap of Faith - Two Person
- Jacobs Ladder - Four Person
- Triple Balance Beams - Up to Two Person
- Walk the Plank Leap of Faith - One Person
- Climbing and Abseil walls or Abseil Platforms
- Gorge Crossing / Tyrolean Traverse Exercise / High Slack Line
- Low Ropes Course fitted to the base of the poles





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## Aerial Trekking in Trees

### Dimensions

- Height - Depending on height & diameter of trees - 6m - 8m for Junior/Beginner Course and 8m - 10m for Adult/Advanced Course
- Length - No more than 20m spans between trees
- Ground Space required - Dependant on the Length of the Course
- Build Time - Dependant on the Length of the Course - Approximately one element per day

### Extra Costs for Consideration

- Personal Protective Equipment (PPE). Please contact us for a competitive quote for your PPE requirements. 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 - 45p per mile x 2 work vehicles
- Flights, airport parking, connections and ferry costs were applicable
- Inaugural Inspection - Optional - Recommended - European Ropes Course Association (ERCA) - See Below
- Annual Inspection costs
- Ground Preparation and Covering - See Below
- Arboriculturist tree inspection
- Site Specific Training - See Below
- Fencing, footpaths and landscaping
- Planning application fees
- Insurance
- Client held contingency sum - construction phase

### Ground Cover & Surrounds

We use pea gravel as it has good drainage and does not mulch down and require topping up like bark chip and wood chips. If you would prefer wood or bark chip we can supply it. The covering is 150mm deep as a minimum, laid on a geotextile membrane to prevent foliage growing through and enclosed in a treated timber surround. We can also supply rubber safety matting surfaces

### Site Specific Training

Staff will be trained, assessed and certified by Vertex Training, a professional and established ropes course training company. Training will include operational procedures for 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 excluding mileage at £0.45 per mile and accommodation costs



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### ERCA Type A Inaugural Inspection - Optional - Recommended

To ensure your new course complies with European Ropes Course Association (ERCA) standards, prEN 15567-1<sup>3</sup>safety requirements and test methods<sup>2</sup> and prEN 15567-2<sup>3</sup>operational requirements<sup>2</sup> 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.

### Summary for Pricing:

- Number and type of elements
- Means of access to each course
- Means of Egress from each course
- Safety System - per element
- PPE
- Training
- Accommodation and subsistence for the JMA engineers
- Mileage to and from site - 0.45p per mile x 2 work vehicles
- Inaugural Inspection
- Arboriculturist tree inspection