



Risk Assessment for Fire Craft Session

Instructor: Christopher Perrio-Stone

This session will introduce the students to Fire Craft and the correct methods for making a fire without the need for mainstream ignition devices such as Matches and Butane Lighters

The students will receive a full safety brief, any behavior throughout the session not described during the safety brief will immediately conclude with that student/s being placed into isolation, taking no further part in the session.

Any behavior deemed dangerous, even if performed in jest, will conclude with that student/s being removed from the Bushcraft activity for the rest of the term.

All students will be briefed on the combustion triangle, and will be introduced to the following means of combustion

1. Solar Combustion
2. Chemical Combustion
3. Electrical Combustion
4. Fire by Friction
5. Flint and Steel
6. Matches
7. Lighters

The students will be shown the following Natural Tinder's:

1. Birch Bark.
2. Honeysuckle Bark.
3. Cramp Ball Fungus.
4. Southern Bracket Fungus (Amadou).
5. Dried Grass.
6. Punk Wood
7. Clematis seed heads
8. Greater Reed Mace seed heads
9. Rose Bay Willow Herb seed heads
10. Dried Bracken
11. Fat Wood

Man made Tinder's:

1. Rubber (Bicycle Inner Tube).
2. Vaseline Soaked Cotton Balls.
3. Char Cloth

All students will be introduced to the following methods of igniting a fire:

1. Flint and Steel.
2. Ferrocerium Rod and Striker (Fire Steel)
3. Friction Fire (Bow Drill).
4. Parabolic Mirrors
5. Fresnal Lenses
6. Magnifying Lenses
7. Wire Wool & 9v Battery
8. Potassium Permanganate & Vegetable Glycerin
9. Magnesium Shavings

All students will be instructed in the collection and sorting of the different wood elements that make up a good fire:

1. Base with 'V' lay
2. Matchstick size twigs
3. Finger size twigs
4. Thumb size twigs

All students will be instructed in the different types of main wood fuel, the good and the bad.

All students will receive instruction in the correct construction of a fire, and how to ensure that there is no risk from the fire once it is finished with, including, leaving no sign.

All students will be supervised and will work in teams of 4/5 with only one team member being allowed into the fire circle to carry out the next prescribed part of making a fire, all other team members will remain outside the main fire circle and will operate a strict rotational system.

WCPS will deal with any incidents involving burns. Any need for any follow up treatment / documentation if required will be arranged via the normal school system.

Extra safety equipment on location for fire craft sessions:

1. Fire Bucket - Filled with water at central point of fire circle
2. Fire retardant gloves - at central point of fire circle
3. Fire Blanket - at central point of fire circle
4. Full Burns First Aid kit - at central point of fire circle

General

Hazard	Harm	At risk	Existing measures / new measures	Who will do it? when?
Weather	Hypothermia	Persons undertaking instruction	<ul style="list-style-type: none"> * Inform student's best clothing for this time of year. * Raincoats, Hats, Gloves. Layering system, Sun protection * Environmental Shelter and first aid kit close by. 	WCPS - throughout session.

Fire Circle

Hazard	Harm	At risk	Existing measures / new measures	Who will do it? when?
Improper movement around fire circle	Burns	Person under instruction and those near by	<ul style="list-style-type: none"> * Inform student's of rules around fire circle * No one to move inside the seated area. * All movement is via the rear of seating * Fire Bucket, Burns First Aid Kit and Fire Blanket all near by. * One to one supervision for children. * Remind others in vicinity to stay clear of the fire circle 	WCPS - throughout session.

Fire Steel

Hazard	Harm	At risk	Existing measures / new measures	Who will do it? when?
Improper use of Fire Steel	Burns	Person using Fire Steel and those near by	<ul style="list-style-type: none"> * Inform student's using Fire Steel of tool talk. * No glove needed using tool. * First aider and first aid kit close by. * Tools counted in and out each session. * One to one supervision for children. * Ensure safety of site if using outside of designated tool use area. * Use in designated area for tools. * Keep in sheath when not in use and store in tool box/safe designated area * Remind others in vicinity to stay clear of tools. 	WCPS - throughout session.

Flint & Steel

Hazard	Harm	At risk	Existing measures / new measures	Who will do it? when?
Improper use of Flint & Steel	Wounds	Person using Flint & Steel and those near by	<ul style="list-style-type: none"> * Inform student's using Flint & Steel of tool talk. * No glove needed using this tool. * First aider and first aid kit close by. * Tools counted in and out each session. * One to one supervision for children. * Ensure safety of site if using outside of designated tool use area. * Use in designated area for demonstration. * Remind others in vicinity to stay clear of demonstration area. 	WCPS - throughout session.

Chemical Combustion

Hazard	Harm	At risk	Existing measures / new measures	Who will do it? when?
Improper use of chemical elements	Burns	Person using chemical elements and those near by	<ul style="list-style-type: none"> * Inform student's of risk from chemical elements. * First aider and first aid kit close by. * Use only in designated area for demonstrations * Remind others in vicinity to stay clear of demonstration area * Ensure all chemical elements are packed away safely after each demonstration. 	WCPS - throughout session.