



# SELF-FEEDING FIRE

JAMIE & JIMMY'S FRIDAY NIGHT FEAST SERIES 6

## Overview

An ingenious self-sufficient design not only keeps campers warm and cosy at night, but it's the perfect low maintenance solution to slow cook food in a large pot over an open fire. A central fire pit is dug into the ground, where two frames of wood create a basic chute, where a stack of pre-cut seasoned wood can be loaded, that fall slowly into the fire pit as a log burns away.

## What you will need

- 10-16 whole unsplit logs, 2 foot long, 4-6 inch diameter
- 4 x branches, 5 foot long, 3 inch diameter.
- 5 x branches, 6 foot long, 3 inch diameter.
- 3m of chain
- 1x carabiner clip
- 1x meat hook

- Cast iron pot
- Rope
- Eco-firelighters

## Tools & Safety equipment

- Spade
- Wood Saw
- Appropriate clothing/ footwear
- Bucket of water

## How to build a Self-feeding fire

1. Find the longest and strongest branch - keep aside as this will become the central cross-beam that will hold the pot above the fire.
2. Dig a pit in the ground to light the fire in and for the logs to roll in to. This should be around the same size as two of the logs placed side by side. If the ground is especially dry, ensure this trench is deep enough, and has been watered to prevent fire spreading underground.



3. This build needs a chute either side of the fire pit that will hold up the logs that will be burned. These chutes are made of an A-frame from two shorter 5 foot branches, with two 6 foot branches coming out and forming the chute for the wooden logs that will be burned.
4. Cut or source 4 branches 5 foot in length, and 4 branches 6 foot long, with a hand saw.  
*Use: Wood Saw*  
*Wear: Safety goggles and gloves*
5. For each tripod, Tie two 5 foot branches so they sit upright, with two 6 foot branches resting outwards to form the chute. Tie together using a diagonal lashing with rope. Once you are happy with this A-frame, secure it into the ground next to the fire pit.



6. Repeat on the other side, so the two tripods are opposite to each other - and the fire pit is in the middle.



7. Hold the two 6 foot branches on the long edge of the fire pit and angle at around 45 degrees, this will become the chute for your logs to fall into the fire.



8. Dig a slot in the ground and bury the tips of the 6 foot branches into the ground next to the fire pit - ensure they are full covered by soil - which if dry should be dampened with water.
9. Once secure, stick two pieces of kindling wood in the centre of the fire pit- this will ensure the logs don't roll in before the fire is lit and gives the fire room to draw in air.
10. Put eco fire lighter and kindling in the pit along the whole length of the logs so it burns evenly, and light.



11. Place the logs on either side of each chute, with an equal number of logs on each side.
12. Rest the larger beam (set aside earlier) across the two A-frames over the fire. This will hold the pot.



13. Wrap a chain around the central branch and secure with a carabiner clip.
14. Cut the chain with some wire cutters to allow enough length for the pot to hang and be hoisted higher or lower as necessary for cooking.  
*Use: Wire cutters*  
*Wear: Safety goggles*
15. Hook the meat hook onto the chain.
16. Hang the pot on the meat hook from it's cast iron handle.



17. Light the fire from the kindling, ensuring that both logs in the fire pit light and fire spreads evenly along each burning log.
18. If the fire spread towards each chute douse them with a little water, or fill in the gaps with earth.
19. After an hour - the two logs in the fire pit will have burned away and the next two on each chute should have naturally moved down and kept the fire going.
20. Once you are finished with the fire, put it out safely. Once cooled, remove unburned fuel.
21. Remove all logs and totally drench the fire pit with water to ensure it is out.
22. Take the structure down safely, unbinding the lashings.
23. Refill the trench with earth and douse once more before leaving.



## Specific Safety Notes

- As with all fires - never leave unattended.
- The fire can spread up the wooden structure and logs if not set up correctly.
- Ensure you have a water bucket nearby in case the fire runs out of control.
- Avoid using this fire somewhere with high-winds.

- Always put out the fire and ensure that the fire can't spread above or below the ground before you leave the ashes.
- Ensure that fires are only built in areas where this is permitted.

## End User Notice

This is a guide only on how to make a self-feeding fire. There are other methods that can be used. Only use power tools and tools in accordance with manufacturers instructions. Ensure all necessary safety equipment is worn at all times. You are responsible for fire safety when you light a fire. The instructions in this document are intended as a guide only, any build you do is at your own risk. You should regularly assess the safety of the Build during construction and afterwards.

## General Safety Guidelines

### Flames

When lighting fires, using naked flames or tools that can generate sparks, please ensure that there is adequate space in the surrounding area and that there are no dry or flammable surfaces nearby. Having water on hand or a sand bucket is a good safety precaution. Once the fire has been put out ensure that it is supervised for at least 60 minutes after.

### Food Prep

Please clean all surfaces thoroughly before serving food and ensure raw food preparation areas are not also used for cooked food serving and presenting.

### Tools

When using tools, please ensure that you have read the instructions carefully and that you have the correct Personal Protective Equipment to operate them safely. If you are not experienced at using them seek help or advice from those more experienced on how to use them safely.

### Heat

Please be mindful that metal gets incredibly hot when heated so please be careful around hot surfaces, make sure others are kept at a safe distance and that you use the correct Personal Protective Equipment (PPE) including protective clothing when handling or working near these builds.

## Children

Make sure that children and others are kept at a safe distance throughout the making of the build and whilst you are using it. Ensure that the build is given enough time to cool fully before you leave it unattended.

## Personal Protection Equipment (PPE) Safety Guidelines

TOOL	ADVICE
<b>For any tasks that will generate dust / particles a dust mask is advised</b>	
ANGLE GRINDER	<ul style="list-style-type: none"> <li>● Hearing Protection</li> <li>● Safety goggles</li> <li>● Dust mask</li> <li>● NO GLOVES (spinning equipment)</li> <li>● Long sleeve cotton clothing</li> <li>● Safety boots</li> </ul>
JIGSAW	<ul style="list-style-type: none"> <li>● Safety goggles</li> <li>● Dust mask</li> <li>● NO GLOVES (spinning equipment)</li> <li>● Safety boots</li> </ul>
MITRE or CHOP SAW	<ul style="list-style-type: none"> <li>● Safety goggles</li> <li>● Dust mask</li> <li>● NO GLOVES (spinning equipment)</li> <li>● HEARING PROTECTION</li> <li>● Safety Boots</li> </ul>
MIG WELDER	<ul style="list-style-type: none"> <li>● Welding clothing</li> <li>● UV welding mask</li> <li>● UV eye protection for observers</li> <li>● Welding gloves</li> </ul>
IMPACT DRIVER (DRILL)	<ul style="list-style-type: none"> <li>● Safety goggles</li> <li>● NO GLOVES (spinning equipment)</li> </ul>
HAND SAW	<ul style="list-style-type: none"> <li>● Safety boots</li> <li>● Safety Gloves to be worn for all non rotating saws</li> </ul>
FILING	<ul style="list-style-type: none"> <li>● Gloves (especially for metal work)</li> </ul>



HACK SAW	<ul style="list-style-type: none"><li>● Safety boots</li><li>● Safety Gloves to be worn for all non rotating saws</li></ul>
BENCH DRILL	<ul style="list-style-type: none"><li>● Safety goggles / Bench drill guard</li><li>● Safety boots</li></ul>
WIRE CLIPPERS/CUTTERS	<ul style="list-style-type: none"><li>● Safety goggles</li></ul>
LIGHTING FIRES	<ul style="list-style-type: none"><li>● Fire safety gloves (for putting coals onto a lit fire)</li><li>● Bucket of water</li><li>● Suitable Fire extinguisher</li><li>● Fire poking tools (metal)</li></ul>
CHISEL/HAMMER	<ul style="list-style-type: none"><li>● Safety Goggles</li><li>● Safety Gloves</li></ul>
TAPER DRILL BIT	<ul style="list-style-type: none"><li>● Safety goggles</li><li>● SAFETY rigger GLOVE for securing metal bowl.</li></ul>