

# HAMMER MAKING & TOOL MAKING WITH PATRICK QUINN

## AUGUST 19-23, 2019

This class will cover all the steps involved in making a 2.5 lb hammer. With a piece of 1045 grade steel, students will punch and drift the hole, forge the cheeks and forge the peen. The majority of the work will be done with sledge-hammers and strikers; focus will be placed on proper striking technique. "Striking" is done with a team of two; one to hold the piece and a tool, the other to "strike" with a sledge hammer. After the hammer is forged, all heat-treating steps will be covered, including hardening, tempering, and finishing (polishing the faces). Handle making will also be covered and students will leave with a handled hammer ready to use! After we forge a hammer students will then use this hammer to forge a set of double calipers. Focused on forging at the anvil and using various hand tools, this exercise walks you through such topics as clean forging, hot cutting, punching and drifting, shaping over the horn, and assembly of multiple moving parts through riveting. This workshop is packed with useful knowledge and perfect for the hobbyist or intermediate blacksmith. These calipers can be executed with low tech tooling in a professional smithy or your home workshop. This is an exciting opportunity to learn how to forge with hand held tools at the anvil, and use your newly forged hammer to make another valuable tool for your shop.

### **Tools/supplies:**

Patrick will bring all the tools for the class.

However, the students will need to provide their own safety items, such as gloves, safety glasses, apron, pencils and paper.  
NO OPEN TOED SHOES.

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