

THREAD CHASING hands-on CLASS with Sam Angelo

Student requirements

Skills

Participants must have basic turning and tool sharpening skills and the ability to complete an end-grain lidded box.

Required tools:

Eye protection-16 or 20 TPI thread chasers-spindle gouge-spindle roughing gouge-box scrapers-narrow parting tool-recess tool for female threads (can be made from 1/8" allen wrench)-vernier calipers or dividers-Scroll chuck with 2 inch/50mm jaws.

Optional tools:

Point tool	armrest tool
"inside tool"	Favorite tools for box making
measuring devices	small bowl gouge
scew chisel	box hollower/scrapper of your choice

Materials to be provided

- Practice supplies: Wood or synthetic materials not suitable for a finished project but will serve the purpose for gaining skills.
- Project wood: Dense, straight grain, diffuse porous woods for the possible completion of a small threaded box. Such woods might include: boxwood, lignum vitae, kingwood, mopane, osage orange, persimmon, bocote, or blackwood.

Instructor Objectives

- ❖ To demonstrate technical aspects of chasing threads in wood
 - Male threads
 - Female threads
- ❖ To demonstrate proper tools-how each is used and sharpened
- ❖ To explain 3 approaches to mating male and female threads
- ❖ Discuss best woods and synthetic materials for hand chased threads
- ❖ Cover steps for completing a finished project. (There is no guarantee that a project will be completed).

Student Goals

- ❖ To acquire skills for chasing
 - Female threads
 - Male threads
 - Mating the male to female threads
- ❖ To demonstrate proper use of thread chasing tools and to understand the purpose of each tool
- ❖ To understand and to demonstrate the thread chasing process which includes:
 - Forming the male and female chamfer
 - Forming the male and female recess
 - Establishing parallel sides on the male tenon
 - Establishing parallel sides on the female recess
 - Demonstrate proper tool position for male and female thread chasers
- ❖ To acquire skills necessary for mating the male to the female threads.
- ❖ To gain an understanding of the process of completing a threaded box.

