Bud Vase
Time line

		Event Time	Elapsed Time	*Notes*
OPENING				
Introduction		10	10	
Introduce self & staff				
Expectations				
Discuss participant expectations	FC 1			Record on flip chart and post
Course goals				
Describe course goals & objectives				
Logistics/Release of Responsibility				
Obtain signed release of responsibility forms	HO 1			
BASIC LECTURE				
Lathe & operation				
Describe lathe components & function	HO 2	5	15	Relate drawing to student lathes
Safety considerations				
Review all safety rules	HO 3	10	25	Focus on eye protection & clothing
Turning basics		10	35	
Rubbing the bevel	HO 4			
Tool & body position	HO 5			
ABC of cutting	HO 5			
Cutting feedback	HO 5			
BASIC TOOLS USE (PRACTICE)				
Discuss roughing out		5	40	
Purpose to make round				Use roughing gouge
Turning a bead and a cove				
Grain orientation & cutting direction	HO 6	5	45	Vase is one bead & one cove
Activity		20	1:05	
Quickly demonstrate first				
Discussion Q&A		5	1:10	Discuss activity
PROJECT INTRODUCTION				
Step-by-step approach				
BREAK		10	1:20	During break Set up vase blanks On student lathes
PROJECT – STEP ONE, Preparing the Blank				
Discussion/demonstration		5	1:25	
Rough out blank between centers				Roughing gouge
Add tendon for chucking				Parting tool/calipers
Chuck prepared blank with tailstock				Chuck

Re-true				Roughing gouge
Activity		25	1:50	
PROJECT – STEP TWO, Turning exterior shape				
Discussion/demonstration		5	1:55	
Shaping to drawing/sample	HO 7			Spindle gouge
Smoothing the surface				Shear scraping w/
Sanding				gouge
Activity		40	2:35	
PROJECT – STEP THREE, Drilling out for test tube				
Discussion/demonstration		5	2:40	
Drill to depth				¾ drill/Jacobs chuck
Clean up interior of the neck				Spindle gouge
Sand neck				Sand paper
Activity		25	3:05	
PROJECT – STEP FOUR, Finishing exterior				
Discussion/demonstration				
Finish sanding				Sand paper
Apply finish				Oil finish
Activity		15	3:20	
PROJECT – STEP FIVE, Part off base				
Discussion/demonstration		5	3:25	
Part off				Parting tool
(Clean up with carving tool)				Carving gouge
(Sand/Finish base)				
Activity		15	3:40	
FINAL DISCUSSION				
What we learned today		10	3:50	Review FC1, Student Expectations
Complete course evaluation	HO 8	5	3:55	
Discuss BAWA	HO 9	5	4:00	
Clean up				

Course Goals and Objectives

The purpose of this course is to produce a simple bud vase with participants of limited turning skill. More advanced turners, if enrolled, may add additional design embellishment to the project as their skill may allow. Additional design enhancements may include: Decorative beads, groves, and more complex exterior shapes.

Instructor notes:

- **TIME LINE:** The timeline is constructed to allow the instructor to determine the progress of the training class be providing both the time necessary for an activity and the total time that should have elapsed. Carefully following the time line will allow the instructor to make necessary adjustments as required.
- **BASIS LECTURE:** Much of the basic materials can be covered quickly due to the Handout available. Do not dwell on points as they may be illustrated during the progress of the class as opportunities arise.
- **PROJECT STEP - TWO, Turning exterior:** Instructor must establish *minimum neck diameter, which may not be diminished.* This dimension should be 1-¼ to 1-½ inches to allow for adequate wall thickness after drilling the neck to ¾ inch in the next step. Other dimensions can also be established from the drawing or sample such as the top diameter, the base diameter, etc. These dimensions should be transferred to the student materials with the use of calipers and a parting tool.
- **PROJECT - STEP TWO, Turning exterior:** Instructor may provide a drawing for vase or a sample in lieu, minimum dimensions can be transferred from this to each student project
- **PROJECT - STEP THREE, Drilling out for test tube:** Instructor should assist drilling ¾ hole at student lathe. Mark the drill for maximum depth to accommodate the test tube. With a spindle gouge, create a "dimple" in which to seat the drill bit. Given the lathe bed length, the drill may need to be chucked in "Vice Grips" as the Jabobs Chuck may not fit the lathes!
- **PROJECT – STEP FIVE, Part off base:** instructor to expedite process may do Parting off vase from chuck. Vase may be partially parted and completed with a Dozuki saw.
- **PROJECT – STEP FIVE, Part off base:** Base clean-up, sanding and finishing may be deleted if there is a time constraint.

Handouts:

HO1	Release of responsibility
HO2	Parts of the Lathe
HO3	Class Safety Rules
HO4	Rubbing the Bevel
HO5	Tool Control
HO6	Grain Orientation and Cutting Direction
HO7	Bud vase design
HO8	Workshop Evaluation
HO9	Woodworking resources

Materials:

Lathe
Spindle gouge
Roughing gouge
Parting tool
Chuck
¾ x 6 glass test tube, Craft Supplies catalog number 072-0175
¾ drill and Jacobs chuck for 2MT
Carving knife
Vice Grips for "chucking" drill
Dozuki cut off saw (optional)
2x2x8 practice stock (pine. fir, redwood)
2x2x7 project stock (Ash, Cherry, Maple)
Sand paper (assorted)
Finish (oil)
Paper towels
Personal safety gear – face shield, paper mask