



Introduction to Woodturning

One Day Spindle Turning Course

Instructors Lesson Plan

Introduction

This course is intended to provide an introduction to woodturning for new turners or those with limited experience and focuses on spindle turning.

During the course they will learn about the Health and Safety aspects of woodturning to help ensure that they can turn safely by themselves. They will learn about the lathe, the tools usually included in a basic starter set of six tools, how to sharpen them and how to use them correctly and safely.

During the course they will produce a sample piece, a mushroom and a goblet. These items have been chosen to enable them to learn a range of techniques. A list of suggested additional pieces is included so that if time allows they may be able to make one or more of these additional pieces during the course or complete them at a later date.

The course is split into modules to help provide structure to the day.

- Module 1: Planing Cuts, Sizing Cuts, V-Cuts, Beads and Coves: This is an introduction to tools and techniques
- Module 2: Turn and Finish a Mushroom: A simple piece and introduce sanding and finishing
- Module 3: Turn and Finish a Goblet: An introduction to simple end grain hollowing, sanding and finishing as you move along the piece and also add some beads etc. on the stem.
- Module 4: Tool Sharpening: Introduction to the ProEdge and how to sharpen a basic set of six tools. Attendees should rotate through this module throughout the day when the ProEdge is free.
- Module 5: Additional Spindle Projects (Optional): For anyone who progresses fast through the day there's a list of additional simple pieces that they could try.

The lesson plans use the AWGB format and have been produced as reference material for instructors to ensure that we have a consistent approach and content to the course. The timings for each step are indicative and tuition should progress at the pace of the student.

Equipment and Material Requirements

The following equipment and materials are required for each attendee at the course

Equipment

- A “Beginners Tool Set” comprising of
 - Spindle Roughing Gouge
 - Parting Tool
 - Round Nosed Scraper
 - Bowl Gouge
 - Spindle Gouge
 - Skew Chisel
- Steb Drive
- Live Centre
- Chuck with a set of 50mm / 2” jaws
- Small Saw
- Abrasives – 120 grit through to 400 grit
- Battery Powered Drill and Sanding Arbor
- Abrasives Discs for Sanding Arbor - 120 grit through to 400 grit
- Sanding Sealer
- Wax

Wood

- Approx. 10” x 3” x 3” spindle blank (Practice piece)
- Approx. 6” x 3” x 3” spindle blank (Mushroom)
- Approx. 8” x 3” x 3” spindle blank (Goblet)

3” square blanks have been chosen so that a tenon can be turned on the spindle to fit into the 2” jaws on the chuck. The length of the blanks can be longer but shorter blanks should be avoided.

Course Title: Introduction To Woodturning	Module Number: 1	Lesson Topic: Spindle Turning – Planing Cuts, Sizing Cuts, V-Cuts, Beads and Coves
Lesson Duration: 1 Hour 15 Minutes	Lesson Outcomes: 1. Identify and Describe the Spindle Roughing Gouge, Spindle Gouge, Parting Tool and Skew Chisel 2. Rough turn from square to round using a Spindle Roughing Gouge followed by planing cuts with a Skew Chisel 3. Turn Sizing Cuts, V-Cuts, Coves and Beads	
Aims: • Produce a spindle blank • Turn Coves, Beads and V-Cuts		

Equipment and Material Requirements	Equipment	Materials
	Spindle Roughing Gouge, Spindle Gouge, Parting Tool and Skew Chisel	Approx. 10" x 3" x 3" spindle blank

Duration (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
5	Introduction: Aim Lesson Outcomes Establish Student Entry Level H&S and Lathe recap	Explaining Discussion	Listening Discussion	Samples Handout	Q&A
5	Outcome 1: Identify and Describe the Spindle Roughing Gouge, Spindle Gouge, Parting Tool and Skew Chisel	Explaining Discussion	Listening Discussion	Spindle Roughing Gouge, Spindle Gouge, Parting Tool and Skew Chisel	Observation
10	Outcome 2a: Rough turn from square to round using a Spindle Roughing Gouge	Demonstrating Supporting	Observing Practising	Tools and Material	Observation

Time (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
10	Outcome 2b: Carry out planing cuts using a Skew Chisel	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
10	Outcome 3a: Produce sizing cuts with a Parting Tool	Demonstrating Supporting	Observing Practising	Tools and Material Ref Sample	Observation
10	Outcome 3b: Produce V-Cuts with a Skew Chisel	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
20	Outcome 3c: Produce Coves and Beads with a Spindle Gouge	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
5	Conclusion/Reflection Next Session	Explaining	Listening		Q&A

Course Title: Introduction To Woodturning	Module Number: 2	Lesson Topic: Spindle Turning – Turn and Finish a Mushroom
Lesson Duration: 1 Hour 35 Minutes	Lesson Outcomes:	
Aims: - Produce a spindle blank - Turn and finish a mushroom	- Rough turn from square to round using a Spindle Roughing Gouge - Mount a spindle blank in a chuck using a chucking point - Turn a mushroom - Introduction to Sanding and Finishing Equipment	
Equipment and Material Requirements	Equipment	Materials
	Spindle Roughing Gouge, Spindle Gouge and Parting Tool Chuck and jaws (50mm internal)	Approx. 6" x 3" x 3" spindle blank Abrasives, Sanding Sealer and Wax

Duration (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
5	Introduction: Aim Lesson Outcomes	Explaining Discussion	Listening Discussion	Samples Handout	Q&A
10	Outcome 1: Rough turn from square to round using a Spindle Roughing Gouge	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
10	Outcome 2a: Introduce the chuck and chucking points	Explaining Discussion	Listening Discussion	Chuck and jaws Handout	Observation
5	Outcome 2b: Make a chucking point on the end of the spindle	Demonstrating Supporting	Observing Practising	Tools and Material Handout	Observation

Time (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
10	Outcome 2c: Mount the chuck on the lathe and mount the spindle in the chuck. Part off the spindle with the parting tool to leave a length in the chuck suitable for turning a mushroom.	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
20	Outcome 3a: Turn a mushroom	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
10	Outcome 4: Introduce sanding and finishing equipment, materials, techniques and precautions including dust extraction	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
20	Outcome 3b: Sand and finish the mushroom. Part off and finish the base.	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
5	Conclusion/Reflection Next lesson	Explaining	Listening		Q&A

Course Title: Introduction To Woodturning	Module Number: 3	Lesson Topic: Spindle Turning – Turn and Finish a Goblet
Lesson Duration: 1 Hour 35 Minutes	Lesson Outcomes:	
Aims:	1. Rough turn from square to round using a Spindle Roughing Gouge 2. Mount a spindle blank in a chuck using a chucking point 3. Turn and finish a goblet	
• Produce a spindle blank • Turn and finish a Goblet		

Equipment and Material Requirements	Equipment	Materials
	Spindle Roughing Gouge, Spindle Gouge and Parting Tool Chuck and jaws (50mm internal)	Approx. 8" x 3" x 3" spindle blank Abrasives, Sanding Sealer and Wax

Duration (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
5	Introduction: Aim Lesson Outcomes	Explaining Discussion	Listening Discussion	Samples Handout	Q&A
10	Outcome 1: Rough turn from square to round using a Spindle Roughing Gouge	Demonstrating Supporting	Demonstrating Supporting	Tools and Material	Observation
5	Outcome 2: Make a chucking point on the end of the spindle. Mount the chuck on the lathe and mount the spindle in the chuck.	Demonstrating Supporting	Observing Practising	Tools and Material Handout	Observation
5	Outcome 3a: Mark out the spindle for the parts of the goblet	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation

Time (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
15	Outcome 3b: Introduce end grain hollowing with a Spindle Gouge. Hollow out the goblet cup.	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
20	Outcome 3c: Turn the outside of the goblet cup. Sand and finish the goblet cup.	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
20	Outcome 3d: Turn the stem and base. Sand and finish the stem and base.	Demonstrating Supporting	Observing Practising	Tools and Material Ref Samples Handout	Observation
10	Outcome 3e: Part off the goblet. Sand and finish the bottom of the base.	Demonstrating Supporting	Observing Practising	Tools and Material	Observation
5	Conclusion/Reflection Next lesson	Explaining	Listening		Q&A

Course Title: Introduction To Woodturning	Module Number: 4 Lesson Topic: Tool Sharpening
Lesson Duration: 1 Hour	Lesson Outcomes: 1. Introduction to the ProEdge sharpening system 2. Sharpen a Spindle Roughing Gouge, Parting Tool, Round Nosed Scraper, Skew Chisel, Spindle Gouge and a Bowl Gouge
Aims: • Introduction to the ProEdge sharpening system • Sharpen the six basic turning tools	

Duration (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
5	Introduction: Aim Lesson Outcomes	Explaining Discussion	Listening Discussion		Q&A
5	Outcome 1: Introduction to the ProEdge sharpening system.	Explaining Discussion	Listening Discussion	ProEdge Sharpening System	Observation
10	Outcome 2a: Sharpen a Spindle Roughing Gouge	Demonstrating Supporting	Observing Practising	Spindle Roughing Gouge	Observation
5	Outcome 2b: Sharpen a Parting Tool	Demonstrating Supporting	Observing Practising	Parting Tool	Observation
5	Outcome 2c: Sharpen a Round Nosed Scraper	Demonstrating Supporting	Observing Practising	Round Nosed Scraper	Observation
5	Outcome 2d: Sharpen a Skew Chisel	Demonstrating Supporting	Observing Practising	Skew Chisel	Observation

Time (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
10	Outcome 2e: Sharpen a Spindle Gouge	Explaining Discussion	Listening Discussion	Spindle Gouge	Observation
10	Outcome 2f: Sharpen a Bowl Gouge	Demonstrating Supporting	Observing Practising	Bowl Gouge	Observation
5	Conclusion/Reflection Next lesson	Explaining	Listening		Q&A

Course Title: Introduction To Woodturning	Module Number: 5	Lesson Topic: Additional Spindle Projects (Optional)
Lesson Duration:	Lesson Outcomes:	
Aims:	1. Complete additional Spindle projects either during the course if time permits or at a later date	
• Complete Additional Spindle Projects		

Time (Mins)	Content	Method (Tutor)	Method (Student)	Resources	Assessment
30	Outcome 1a: Bud Vase			Handout	Observation
30	Outcome 1b: Garden Dibber			Handout	Observation
45	Outcome 1c: Snowman			Handout	Observation
30	Outcome 1d: Christmas Tree			Handout	Observation
60	Outcome 1e: Apple and/or Pear			Handout	Observation
30	Outcome 1f: Candlestick			Handout	Observation
30	Outcome 1g: Spinning Top			Handout	Observation