

Okuma

MacTurn “H1” Spindle Class

for

MacTurn 250/350 Machines

Course Code : MA-122

Prerequisite : MA-121

Credits :3.5 CEU's

Course length : 4.5 days

Class Size : 6 persons

COURSE OBJECTIVES - This course is designed for the Service person who has had experience on Okuma lathes or for those who have removed and installed an “H1” spindle assembly. Although one week is too short to become completely familiar with the machine, we feel enough material can be covered to enable the student to reach these four main goals.

1. **LEARN** the different types of spindles (HSK) & (CAPTO) of the “H1” spindle, and how to disassemble and reassemble the spindle/drawbar assembly. Disassemble and reassemble the B Axis assembly.
2. **DIAGNOSE** problems using your own experience, the manuals provided with this course, your machine, and the machine's own self-checking capabilities.
3. **DISCUSS** problems and solutions by phone first with your distributor's service staff or after you have exhausted that source, then with OKUMA.
4. **PERFORM** simple repairs that can save expensive service calls and downtime.

Course emphasis is a blend of classroom instructional theory, time spent on the machine tool, and individually displayed skills.

Both actual demonstration and an exam measure comprehension of the topics.

COURSE REGISTRATION - please contact *Von Robertson* at (803-981-7000) the Institute for Manufacturing Productivity to obtain program availability dates, or check our website <http://imp.okuma.com>

MECHANICAL MAINTENANCE
MA-122 MacTurn “H1” Spindle Class
MacTurn 250/350 Machines
COURSE OUTLINE

MONDAY

1. Introduction and Formalities
2. Class Goals and Course Outline
3. Documentation Overview
4. Safety Precautions
5. “H1” Spindle Construction
6. Removal of “H1” spindle
7. Lunch
8. Removal of “H1” Spindle Continued

TUESDAY

1. Intruducing Tools needed to Reassemble “H1” Spindle
2. Installing the Drawbar Assembly and Alignments
3. Lunch
4. Installing the Drawbar Assembly and Alignments Continued

WEDNESDAY

1. “H1” Turret Removal
2. Lunch
3. “H1” Turret Installation and Alignments

THURSDAY

1. Disassemble the B Axis
2. Lunch
3. Reassemble the B Axis

FRIDAY

Finish Alignments and discussions of completed course

Finished by 11am

