

Okuma

Factory Training

for

Konan Vertical Lathes

Course Code : MK-101

Prerequisite : None

Credits :3.5 CEU's

Course length : 4.5 days

Class Size : 4 persons

COURSE OBJECTIVES - This course is designed for the Service person who has had experience on Okuma lathes. 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** to analyze the problem and know what needs to be aligned. Learn how to realign the machine.
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 *Janie Liggins* at (803-981-7000) the Center for Advance Manufacturing to obtain program availability dates.

MECHANICAL MAINTENANCE

MK-101 Konan Vertical Lathes

COURSE OUTLINE

MONDAY

1. Introduction and Formalities
2. Class Goals and Course Outline
3. Documentation Overview
4. Safety Precautions
5. Machine Installation
 - Oil Requirements
6. Power Requirements
7. Outline of Control Panels
8. Fundamental Machine Operation Procedure

9. Lunch

10. Machine Leveling
11. Hands on

TUESDAY

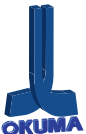
1. Slideways
2. Lubrication Distribution
3. Hydraulic Power Supply
4. Chucking System

5. Lunch

6. Spindle Assembly Hands On.
 - Runout Check
 - Bearing Temperature Check
 - Troubleshooting Noise
 - Cylinder Alignment

WEDNESDAY

1. Turret
 - Operation
 - Alignments
 - Adjustments
 - Problems



WEDNESDAY Continued

2. Lunch
3. Hands On
Turret Disassembly & Assembly
Alignments

THURSDAY

1. Ballscrew Alignments
2. Hands On
3. Lunch
4. Hands On
5. Inspection and Maintenance

FRIDAY

Finish up any loose ends from earlier in the week.