

# VIRTUAL REALITY FITTER MODULE

## HOW TO USE LATHE MACHINE

**SPINDLE SPEED  
SELECTOR**  
It enables operator  
to control the  
spindle speed.  
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**LOAD THE  
PART  
Here**

**CARRIAGE**  
It is responsible  
for guiding the  
tool bit as it  
or otherwise  
manipulate  
workpiece

**SPINDLE RPM**  
1440

**DIRECTION OF  
ROTATION**  
CLOCKWISE

**REQUIRED  
DRILL DEPTH** 5mm

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**UPCOMING**

- TURNING
- DRILLING
- BORING

**ONGOING  
FACING DEPTH** 0.2mm  
**REQUIRED  
FACING DEPTH** 1.0mm

# SAFE WORKING PRACTICES

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- Importance of trade training.
- List of tools & Machinery used in the trade.
- Safety attitude development of the trainee by educating them to use Personal Protective Equipment (PPE).
- First Aid Method and basic training
- Safe disposal of waste materials like cotton waste, metal chips/burrs etc.
- Hazard identification and avoidance.
- Safety signs for Danger, Warning, caution & personal safety message.
- Preventive measures for electrical accidents & steps to be taken in such accidents.
- Use of Fire extinguishers.
- Practice and understand precautions to be followed while working in fitting jobs.
- Safe use of tools and equipments used in the trade



## BASIC FITTING OPERATION

Marking, Hack sawing, filing drilling, tapping

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- Identification of tools & equipments as per desired specifications for marking & sawing.
- Selection of material as per application.
- Visual inspection of raw material for rusting, scaling, corrosion etc.
- Marking out lines, gripping suitably in vice jaws, hacksawing to given dimensions.





## ADVANCE TRAINING

- Lathe Machine Operation.
- Sawing different types of metals of different sections.
- Filing Channel, Parallel.
- Filing- Flat and square (Rough finish), Filing practice, surface filing, marking of straight and parallel lines with odd leg calipers and steel rule.
- Marking practice with dividers, odd leg calipers and steel rule (circles, ARCs, parallel lines).

## MAINTENANCE & REPAIR

- Simple repair work.
- Simple assembly of machine parts from blue prints Rectify possible assembly faults during assembly.
- Perform the routine maintenance with check list Monitor machine as per routine checklist.
- Dismantle, overhauling, & assemble cross-slide & hand-slide of lathe carriage.
- Simple repair of machinery: - Making of packing gaskets.
- Use hollow punches, extractor, drifts, various types of hammers and spanners, etc. for repair work.
- Dismantling, assembling of different types of bearing and check for functionality. Perform routine check of machine and do replenish as per requirement.



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