

# PHOTOGRAPHS OF CHARTS ON FITTING

<h3>FITTING (F - 1)</h3> <h4>PIPE VICE / BENCH VICE</h4> <p><b>FIXED TYPE PIPE VICE</b> Fixed type pipe vice is a clamp for holding pipe that is to be cut or threaded.</p> <p><b>OPEN TYPE PIPE VICE</b> Open type pipe vice is a clamp for holding pipe that is to be cut or threaded.</p> <p><b>BENCH VICE</b> Bench vice is a mechanical device applicable to holding or clamping a work piece to allow work to be performed on it with tools such as saws, chisels, drills, mills, screwdrivers, etc. Vices usually have one fixed jaw and another adjustable jaw which is moved towards or away from the fixed jaw by the screw.</p>	<h3>FITTING (F - 2)</h3> <h4>TYPES OF HAMMER</h4> <p><b>PARTS OF A BALL PEIN HAMMER</b></p> <p><b>CRIBS PEIN HAMMER</b>   <b>STRAIGHT PEIN HAMMER</b>   <b>CLAW HAMMER</b></p> <p><b>BLUDGE HAMMER</b>   <b>ROFF FACED HAMMER</b>   <b>CRIBS PEIN HAMMER</b>   <b>RYPPING HAMMER</b></p>	<h3>FITTING (F - 3)</h3> <h4>FITTING CHISELS</h4> <p><b>FLAT CHISEL AND ITS PARTS</b></p> <p><b>DIAMOND POINT CHISEL</b></p> <p><b>HALF-ROUND NOSE CHISEL</b>   <b>CROSS-CUT CHISEL</b></p> <p><b>PNEUMATIC CHISEL-AND-DRIVING TOOL</b>   <b>HOT AND COLD CHISELS</b></p>	<h3>FITTING (F - 4)</h3> <h4>FINDS OF FILES</h4> <p><b>FILE TEETH ANGLES</b>   <b>WING CUT</b>   <b>DOUBLE CUT</b></p> <p><b>FLAT FILE</b>   <b>HAND FILE</b>   <b>HALF-ROUND</b>   <b>ROUND FILE</b>   <b>TRIANGULAR FILE</b>   <b>SQUARE FILE</b>   <b>WARDING FILE</b></p>	<h3>FITTING (F - 5)</h3> <h4>SCRAPERS</h4> <p><b>HOLDING OF THE SCRAPER</b></p> <p><b>HOOK SCRAPER AND ITS POINT</b>   <b>HALF-ROUND BEARING SCRAPER</b></p> <p><b>FLAT SCRAPER</b>   <b>TIPPED SCRAPER</b>   <b>TRIANGULAR SCRAPER</b></p>	<h3>FITTING (F - 6)</h3> <h4>HACKSAWS</h4> <p><b>HACKSAW</b>   <b>SAW BLADE TEETH</b></p> <p><b>HACKSAW BLADE</b>   <b>HACKSAW CUTTING ANGLES</b></p> <p><b>TYPES OF HACKSAW</b></p> <p><b>FLAT ADJUSTABLE FRAME</b>   <b>DEEP CUTTING FRAME</b>   <b>TUBULAR FIXED FRAME</b>   <b>JEWELLERS SAW</b>   <b>TUBULAR ADJUSTABLE FRAME</b>   <b>DOCTOR'S SAW</b></p>
<h3>FITTING (F - 7)</h3> <h4>TRY SQUARE / VEE BLOCK / ANGLE PLATE</h4>	<h3>FITTING (F - 8)</h3> <h4>SAWING / FITTING / CHISELLING</h4> <p><b>SAWING</b></p> <p><b>FILING</b></p> <p><b>CHISELLING</b></p>	<h3>FITTING (F - 9)</h3> <h4>TAPS AND DIES</h4> <p><b>FIRST SW OR TAPER TAP</b>   <b>SECOND OR INTERMEDIATE TAP</b>   <b>PLUG OR BOTTOMING TAP</b>   <b>DOUBLE-FIXED ADJUSTABLE TAP WRENCH</b></p> <p><b>SOLID TYPE TAP WRENCH</b>   <b>BUTTON PATTERN STOCK</b></p> <p><b>USE OF A DIE</b>   <b>HALF DIE</b>   <b>BUTTON DIE</b></p> <p><b>T-TWIST DIE WRENCH</b>   <b>ADJUSTABLE SCREW PLATE DIE</b></p>	<h3>FITTING (F - 10)</h3> <h4>REAMERS</h4> <p><b>PARTS OF A REAMER</b>   <b>REAMER CUTTING ANGLES</b></p> <p><b>MACHINE REAMERS</b>   <b>HAND REAMERS</b></p> <p><b>CHUCKING</b>   <b>SHELL</b>   <b>JOBBER</b>   <b>STUB SCREW</b>   <b>BRIDGE</b>   <b>SUPPING</b>   <b>ADJUSTABLE</b></p> <p><b>STRAIGHT FLUTED</b>   <b>HELICAL FLUTED</b>   <b>ADJUSTABLE</b>   <b>EXPANSION</b>   <b>TAPER STRAIGHT FLUTED</b></p>	<h3>FITTING (F - 11)</h3> <h4>PIPE FITTINGS</h4> <p><b>BEND</b>   <b>ELBOW</b>   <b>TEE</b>   <b>CROSS</b></p> <p><b>REDUCING SOCKET</b>   <b>UNION JOINT</b>   <b>NIPPLE</b>   <b>HYDRAULIC JOINT</b></p> <p><b>PLUG</b></p>	<h3>FITTING (F - 12)</h3> <h4>WRENCHES</h4> <p><b>OPEN- END WRENCH</b>   <b>TEE-SOCKET WRENCH</b></p> <p><b>CLOSE END WRENCH FOR DRIVING</b>   <b>SOCKET WRENCH</b>   <b>ALLEN WRENCH</b></p> <p><b>PIPE WRENCH</b>   <b>CHAIN PIPE-TING</b></p>
<h3>FITTING (F - 13)</h3> <h4>HAND TOOLS USED IN FITTING SHOP</h4> <p><b>WRENCHES</b>   <b>REAMER</b>   <b>HACKSAW</b>   <b>TAPER TAP</b>   <b>ENGINEER'S HAMMER</b>   <b>CIRCULAR SPLIT DIE</b>   <b>PARTS OF A FILE</b>   <b>FLAT CHISEL</b>   <b>STANDARD SCREWDRIVER</b>   <b>FLAT SCRAPER</b></p>	<h3>FITTING (F - 14)</h3> <h4>TAPPING A BLIND HOLE</h4> <p><b>(A) HOLDING A TAP WRENCH</b></p> <p>After the threads catch the metal, check with try-square that the tap is entering the hole at right angle to the surface.</p> <p>Measure the depth of hole and put a chalk mark or fix cotton thread or rubber band on the tap to the required length.</p> <p><b>(B) CHECKING A THREAD WITH A THREAD GAUGE</b>   <b>(C) CHECKING A THREAD WITH A BOLT</b></p>	<h3>FITTING (F - 15)</h3> <h4>CUTTING A THREAD WITH DIE AND STOCK</h4> <p><b>(A) CHAMFERING THE END OF THE ROD TO BE THREADED.</b>   <b>(B) SIPPING DIE. (C) SOLID DIE</b>   <b>(D) FITTING A DIE INTO A STOCK</b>   <b>(E) CUTTING A THREAD</b>   <b>(F) SIZING A THREAD</b>   <b>(G) CHECKING THE THREAD PITCH WITH A THREAD GAUGE</b></p>	<h3>FITTING (F - 16)</h3> <h4>METHODS OF FILING</h4> <p><b>CROSS FILING</b>   <b>DRAW FILING</b>   <b>METHOD OF PROFILING</b>   <b>LATHE FILING</b>   <b>HOLDING FILE FOR HEAVY WORK</b>   <b>HOLDING FILE FOR FINISHING</b></p> <p><b>CORRECT STANCE IN FILING</b></p>	<h3>FITTING (F - 17)</h3> <h4>TAPPING THROUGH HOLES</h4> <p><b>SETTING A TAP AGAINST A SQUARE</b>   <b>SETTING A TAP AGAINST A SQUARE</b>   <b>DRIPPING</b></p> <p><b>TAPPING IN THE LATHE</b></p> <p><b>TAPPING ON THE DRILLING MACHINE</b>   <b>TAPPING ATTACHMENT</b></p>	