

Course Title	PRESS TOOL MAKING “ BASIC ‘																												
Purpose	Press tool making																												
Eligibility	Degree/Diploma in Mechanical branch or NTC/NAC with 2-3 years relevant trade experience																												
Duration	02 weeks																												
Location	ADVANCED TRAINING INSTITUTE, MUMBAI																												
Learning outcomes	After completion of training the candidate will <ol style="list-style-type: none"> 1. Knowledge of safety and fire 2. Identification of press tool 3. Knowledge of various types of press tool 																												
Teaching methods	1 Lectures in classroom. 2. Demonstration 3. Practical sessions 3 Group exercises & discussion																												
Assessment methods	<table border="1" style="width: 100%;"> <tr> <td colspan="3" style="text-align: center;">1- Formative assessment consist of following things :</td> </tr> <tr> <td style="width: 15%;">Sr. No.</td> <td style="width: 60%;">Criteria for assessment</td> <td style="width: 25%;">Maximum marks</td> </tr> <tr> <td>1---A</td> <td>Attendance & Punctuality</td> <td style="text-align: center;">20</td> </tr> <tr> <td>2----B</td> <td>sincerity</td> <td style="text-align: center;">20</td> </tr> <tr> <td>3----C</td> <td>Ability to grasp the topic</td> <td style="text-align: center;">10</td> </tr> <tr> <td colspan="3" style="text-align: center;">2- Summative assessment through objective type questions consist of following things:</td> </tr> <tr> <td>Sr. No.</td> <td>Criteria for assessment</td> <td>Maximum marks</td> </tr> <tr> <td>1.</td> <td>Test consist of practical knowledge</td> <td style="text-align: center;">30</td> </tr> <tr> <td>2.</td> <td>Test consist of Theoretical Knowledge</td> <td style="text-align: center;">20</td> </tr> </table>		1- Formative assessment consist of following things :			Sr. No.	Criteria for assessment	Maximum marks	1---A	Attendance & Punctuality	20	2----B	sincerity	20	3----C	Ability to grasp the topic	10	2- Summative assessment through objective type questions consist of following things:			Sr. No.	Criteria for assessment	Maximum marks	1.	Test consist of practical knowledge	30	2.	Test consist of Theoretical Knowledge	20
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Course schedule	DAY	FORENOON SESSION (9.00 am – 1.00 pm)	AFTERNOON SESSTION (1.30 pm – 5.30)
	1	Introduction, Course objectives and Safety in work shop , Press tool making .	Demonstration of various machine
	2	Introduction , Press tool , Various types of Press tool. .	Demonstration of various types of Press tool
	3	Press tool , Parts , Function	Manufacture of draw press tool
	4	Different Press tool and function I	Manufacture of simple Blanking and piercing tool
	5	Method of press tool	Do
	6	Introduction , Fastener ,types ,Locking System ,used in machine tool	Use various types of fasteners
	7	Introduction, Punch & die,	Manufacture of progressive tool
	8	Types of Drill jig	Do
	9	Types of Stripper	Manufacture of tool
	10	Stopper ,Types and FunctionAll Introduction ,Lubrication ,Types ,lubrication system	Feedback / Validation
AIDS	LCD projector, white board, Power point , Charts , Models .		
Instruction material	TD/AVTS/AV08./01, CM , Soft copy of course material .		

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Course Title	PRESS TOOL MAKING “ADVANCED “																												
Purpose	Making advanced press tool																												
Eligibility	Degree/Diploma in Mechanical branch or NTC/NAC with 2-3 years relevant trade experience																												
Duration	02 weeks																												
Location	ADVANCED TRAINING INSTITUTE, MUMBAI																												
Learning outcomes	After completion of training the candidate will 1. Knowledge of safety precaution 2. Knowledge of various types of press tool making 3. Knowledge of method press tool																												
Teaching methods	1 Lectures in classroom. 2. Demonstration 3. Practical sessions 3 Group exercises & discussion																												
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	1	Introduction, Course objectives and Safety in work shop , Press tool making .	Demonstration of various machine
	2	Introduction , Press tool , Various types of Press tool. .	Demonstration of various types of Press tool
	3	Press tool , Parts , Function	Manufacture of draw press tool
	4	Different Press tool and function I	Manufacture of simple Blanking and piercing tool
	5	Method of press tool	Do
	6	Introduction , Fastener ,types ,Locking System ,used in machine tool	Use various types of fasteners
	7	Introduction, Punch & die,	Manufacture of progressive tool
	8	Types of Drill jig	Do
	9	Types of Stripper	Manufacture of tool
	10	Stopper ,Types and FunctionAll Introduction ,Lubrication ,Types ,lubrication system	Feedback / Validation
AIDS	LCD projector, white board, Power point , Charts , Models .		
Instruction material	TD/AVTS/AV08./02, CM , Soft copy of course material .		

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Course Title	JIG MAKING																												
Purpose	Jig making																												
Eligibility	Degree/Diploma in Mechanical branch or NTC/NAC with 2-3 years relevant trade experience																												
Duration	02 weeks																												
Location	ADVANCED TRAINING INSTITUTE, MUMBAI																												
Learning outcomes	After completion of training the candidate will <ol style="list-style-type: none"> 1. Knowledge of safety precaution 2. Knowledge of various types of jig and method 3. Knowledge of various types of machine jig use 																												
Teaching methods	1 Lectures in classroom. 2. Demonstration 3. Practical sessions 3 Group exercises & discussion																												
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Course schedule	DAY	FORENOON SESSION (9.00 am – 1.00 pm)	AFTERNOON SESSSION (1.30 pm – 5.30)
	1	Introduction, Course objectives and Safety in work shop , .	Demonstration of various machine
	2	Introduction , jig ,Types of jig .	Demonstration of various types of jig
	3	Various types of jig , Parts , Function	Prepared jig Material
	4	Design feature of jig	Manufacture of v block angle
	5	Method of and usage Types of jig	Do
	6	Introduction , Fastener ,types ,Locking System ,used in machine tool	Use various types of fasteners
	7	Introduction, Locating ,Principal ,Types ,	Manufacture of various clamp
	8	Types of clamping ,Priniciple ,types of clamp	do
	9	Types of drill bushes , and drill jig	Do
	10	Selection of jig	Feedback / Validation
AIDS	LCD projector, white board, Power point , Charts , Models .		
Instruction material	TD/AVTS/AV08./03, CM , Soft copy of course material .		

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Course Title	FIXTURE MAKING																												
Purpose	Various fixture method																												
Eligibility	Degree/Diploma in Mechanical branch or NTC/NAC with 2-3 years relevant trade experience																												
Duration	02 weeks																												
Location	ADVANCED TRAINING INSTITUTE, MUMBAI																												
Learning outcomes	After completion of training the candidate will <ol style="list-style-type: none"> 1. Knowledge of safety precaution 2. Knowledge of various machine fixture 3. Knowledge of material in use fixture making 																												
Teaching methods	1 Lectures in classroom. 2. Demonstration 3. Practical sessions 3 Group exercises & discussion																												
Assessment methods	<table border="1" style="width: 100%;"> <tr> <td colspan="3">4- Formative assessment consist of following things :</td> </tr> <tr> <td style="width: 15%;">Sr. No.</td> <td style="width: 60%;">Criteria for assessment</td> <td style="width: 25%;">Maximum marks</td> </tr> <tr> <td>1---A</td> <td>Attendance & Punctuality</td> <td>20</td> </tr> <tr> <td>2----B</td> <td>sincerity</td> <td>20</td> </tr> <tr> <td>3----C</td> <td>Ability to grasp the topic</td> <td>10</td> </tr> <tr> <td colspan="3">2- Summative assessment through objective type questions consist of following things:</td> </tr> <tr> <td>Sr. No.</td> <td>Criteria for assessment</td> <td>Maximum marks</td> </tr> <tr> <td>1.</td> <td>Test consist of practical knowledge</td> <td>30</td> </tr> <tr> <td>2.</td> <td>Test consist of Theoretical Knowledge</td> <td>20</td> </tr> </table>		4- Formative assessment consist of following things :			Sr. No.	Criteria for assessment	Maximum marks	1---A	Attendance & Punctuality	20	2----B	sincerity	20	3----C	Ability to grasp the topic	10	2- Summative assessment through objective type questions consist of following things:			Sr. No.	Criteria for assessment	Maximum marks	1.	Test consist of practical knowledge	30	2.	Test consist of Theoretical Knowledge	20
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Course schedule	DAY	FORENOON SESSION (9.00 am – 1.00 pm)	AFTERNOON SESSTION (1.30 pm – 5.30)
	1	Introduction, Course objectives and Safety in work shop , .	Demonstration of various machine
	2	Introduction,Types of Fixture .	Demonstration of various types of fixture
	3	Various types of Fixture , Parts , Function	Prepared fixture Material ,and practical work
	4	Design feature of fixture	Manufacture of design of fixture
	5	Method of and usage Types of fixture	Do
	6	Introduction , Fastener ,types ,Locking System ,used in machine tool	Use various types of fasteners
	7	Introduction, Locating ,Principal ,Types ,	Manufacture of various clamp
	8	Types of clamping ,Principle ,types of clamp	Manufacture of drilling and milling fixtyre
	9	Types of milling and drilling fixture	Do
	10	Selection of fixture	Feedback / Validation
AIDS	LCD projector, white board, Power point , Charts , Models .		
Instruction material	TD/AVTS/AV08./04, CM , Soft copy of course material .		

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Course Title	TOOL ROOM PRECISION MACHINING																												
Purpose	Various machine operation knowledge																												
Eligibility	Degree/Diploma in Mechanical branch or NTC/NAC with 2-3 years relevant trade experience																												
Duration	02 weeks																												
Location	ADVANCED TRAINING INSTITUTE, MUMBAI																												
Learning outcomes	After completion of training the candidate will <ol style="list-style-type: none"> 1. Knowledge of safety and fire 2. Knowledge of various machine operation 3. Knowledge of machine use 																												
Teaching methods	1 Lectures in classroom. 2. Demonstration 3. Practical sessions 3 Group exercises & discussion																												
Assessment methods	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">5- Formative assessment consist of following things :</td> </tr> <tr> <td style="width: 15%;">Sr. No.</td> <td style="width: 60%;">Criteria for assessment</td> <td style="width: 25%;">Maximum marks</td> </tr> <tr> <td>1---A</td> <td>Attendance & Punctuality</td> <td style="text-align: center;">20</td> </tr> <tr> <td>2----B</td> <td>sincerity</td> <td style="text-align: center;">20</td> </tr> <tr> <td>3----C</td> <td>Ability to grasp the topic</td> <td style="text-align: center;">10</td> </tr> <tr> <td colspan="3" style="text-align: center;">2- Summative assessment through objective type questions consist of following things:</td> </tr> <tr> <td>Sr. No.</td> <td>Criteria for assessment</td> <td>Maximum marks</td> </tr> <tr> <td>1.</td> <td>Test consist of practical knowledge</td> <td style="text-align: center;">30</td> </tr> <tr> <td>2.</td> <td>Test consist of Theoretical Knowledge</td> <td style="text-align: center;">20</td> </tr> </table>		5- Formative assessment consist of following things :			Sr. No.	Criteria for assessment	Maximum marks	1---A	Attendance & Punctuality	20	2----B	sincerity	20	3----C	Ability to grasp the topic	10	2- Summative assessment through objective type questions consist of following things:			Sr. No.	Criteria for assessment	Maximum marks	1.	Test consist of practical knowledge	30	2.	Test consist of Theoretical Knowledge	20
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Course schedule	DAY	FORENOON SESSION (9.00 am – 1.00 pm)	AFTERNOON SESSTION (1.30 pm – 5.30)
	1	Introduction, Course objectives and Safety in work shop , .	Demonstration of various machine
	2	Introduction, jig boring machine.	Demonstration of various machine function
	3	Various types of pantograph engraving machine	Demonstration of various machine function & practical work
	4	Introduction , Tool room milling machine	Do
	5	Method of and usage all machine	Do
	6	Introduction , Fastener ,types ,Locking System ,used in machine tool	Use various types of fasteners
	7	Introduction, milling cutter holding device	Demo all milling cutter ,and holding device
	8	Introduction, lathe machine and function	Lathe machine practical work
	9	All types of tool room machine introduction	Do
	10	Introduction pf OPG machine	Feedback / Validation
AIDS	LCD projector, white board, Power point , Charts , Models .		
Instruction material	TD/AVTS/AV08./05, CM , Soft copy of course material .		

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