

Trades Details Summary

Trade Name	Description	Duration (Days)
Fitters	Theory and practical session to give technical training in Fitter trade.	18

Theory (Fitters)

Topic	Key Learning Outcomes	Equipment Required	Duration
Fitter Marking and Marking Tools	- Describe various types of marking methods - Marking media, types and uses - Punch, types and uses - Scriber, types and uses - Divider and its uses - Marking of table and its uses	Presentations, Trainer Guide, personal protective equipment (PPE).	2:0
Drilling, Tapping, and Reaming	- Drill, and its types - Drill machines and their types - Methods of Drilling Operation - Reamer, and its types - Methods of Reaming - Tap, and its types - Methods of Tapping - Precautions	Presentations, Trainer Guide, personal protective equipment (PPE).	2:0
Method of Threading with Dieing and Scraping	- Die, and its types - Die Stock and its types - Methods of Threading - Scraper, and its types - Methods of Scraping on flat surface - Precautions	Training Kit (Presentations, Trainer Guide), personal protective equipment (PPE).	2:0
Material Handling	- Movement of Raw Material - Movement of Finished Material - Waste Segregation - Cleanliness - Stacking	Audio-Video	3:0
Fitting safety & Knowledge about PPEs	- What is Safety - Awareness about General Safety - Fitting Safety - Use of PPEs: Hand Gloves, Safety Goggles, Apron, Earplugs - Advantages of Safety - Do's & Don'ts	Presentations, Trainer Guide, personal protective equipment (PPE).	2:0
Precision Measuring Instruments	- Micrometer (a) Parts and purpose (b) Least Count (c) How to read and take measurement (d) Importance of accuracy and precision - Vernier Calipers (a) Parts and purpose (b) Least Count (c) How to read and take measurement (d) Importance of accuracy and precision - Precautions	Presentations, Trainer Guide	2:0
Fitter Hand Tools	- Describe various types of hand tools - Hammers, its types and uses - Vises, its types and uses - Clamps, their types and uses - Screw Drivers, its types and uses - Wrenches and Spanners, their types and uses - Pliers, its types and uses	Presentations, Trainer Guide, personal protective equipment (PPE).	3:0
Doubt Clearing	- Feed Back - Group discussion	Presentations, White Board	7:0
First Aid	- Electrocution - Cut - Bleeding - Faint - Bandage - Resuscitation - Ambulance	Audio-Video	2:0
Effective Communication	- Subordinates - Peers - Superiors - Customers	Audio-Video	8:0
Limits, Fits and Tolerance	- Limit, Types of Limit and its uses - Fits, Types of Fits and its uses - Tolerance, Types of Tolerance and its uses - Allowance, Types of Allowance and its uses - Precautions	Presentations, Trainer Guide	2:0
Valedictory	- Work Ethics - Personal Financial Planning - Health	Presentations, White Board	3:0
Introduction to Fitter Trade	- Definition of Fitter - Explain different types of fitting processes: Surface Smoothness, Squaring, Male-Female Fitting, Drilling, etc. and associated equipments. - Importance of Fitter - Uses of Fittings	Presentations, Trainer Guide	2:0
Fitting Measuring Tools and Units	- Knowledge of Measuring tools and units - Measurement and different types of measuring tools - Steel Rule, types and its uses - Try square, types and its uses - Calipers, types and its uses - Measuring units: M.K.S., C.G.S. and F.P.S. - Precautions	Presentations, Trainer Guide	2:0
Financial Management	- Financial Management - Resources / Fund availability by Bank - Loan Scheme like Mudra Loan	Presentations, White Board	2:0
Fitter Cutting Tools	- Describe various types of cutting tools - Chisels, its types and uses - Chipping operation and methods - Files, its types and uses - Filing operation and methods - Hacksaw Frame and its types - Hacksaw Blade and its types - Hacksawing operation, methods and precautions - Chipping operations as per drawing	Presentations, Trainer Guide, personal protective equipment (PPE).	8:0

Registration of participants	• Covid Declaration • Participants Profile • Describe the role of a fitting technician	White Board	2:0
Orientation Programme & Introduction about Entrepreneurship	• Entrepreneur, Entrepreneurship and Enterprise • Scheme & Types of Entrepreneurship • Importance of Entrepreneurship • Entrepreneurship Opportunities & Challenges • Startup Business • Cash Flow * Incubation Centre like DIC & IIT (BHU)	Presentations, Trainer Guide.	2:0

Practical (Fitters)

Topic	Keylearning Outcomes	Equipment Required	Duration
Fitter Practical	• Hacksawing and Stepping of Job as per drawing	MS Plate, Hacksaw frame with blade, flat files, caliper, steel rule and try square	5:0
Fitter Practical	• Types of cutting (triangular, square and rectangular) and filing as per drawing	MS Plate, Hacksaw frame with blade, flat, square and triangular files, Vernier caliper, micrometer, steel rule and try square	6:0
Fitter Practical	• Male-Female Fitting (Round Fitting) of job as per drawing	MS Plate, hacksaw frame with blade, flat file, round, half-round file, steel rules, Punch, Scriber, Divider, try square and calipers	8:0
Fitter Practical	• Male-Female Fitting (T-Fitting) of job as per drawing	MS Plate, Hacksaw frame with blade, flat, square and triangular files, Vernier caliper, micrometer, steel rule and try square	8:0
Fitter Practical	• Filing and Squaring of Job as per drawing	MS plate, flat files, calipers, steel rule and try square	5:0
Fitter Practical	• Male-Female Fitting (V-Fitting) of job as per drawing	MS Plate, Hacksaw frame with blade, bench vise, clamps, , hammer, flat and triangular files, steel rule and try square	2:0
Fitter Practical	• Threading on Pipe as per drawing • Scraping of Job as per drawing	MS Plate, caliper, flat files, Die, Die Stock, Scraper, Vernier Calipers, Micrometer, and try square	2:0
Practical	• Chipping operations as per drawing	MS Plate, chisel, flat files, hammer, hacksaw frame and blade, steel rule, bench vise, clamps	6:0
Fitter Practical	• Filing, Drilling, Reaming and Tapping of Job as per drawing	MS Plate, caliper, flat files, Drill and Drill Machine, Reamer, Tap, Vernier Calipers, Micrometer, and try square	2:0