

VSPM Academy of Higher Education

ArvindbabuDeshmukhMahavidyalayaBharsingi



Tah.Narkhed Dist. Nagpur

Course Name- "Welding and Fabrication"

The course "Welding and Fabrication" was obtained under UGC scheme for the two years now college running the certificate course on self-finance basis from academic year 2017-18.

The objective of this certificate course is to 'Develop skill and to become self-reliant and self-empowerment'. Welding operations were basic and common to all departments in the workshop therefore we started this course in our college. In this year total 42 students were actively participated. We design syllabus for this course in our college and run from 1st week of February to 15th March (Duration-30 hrs). From B.A, B.Com. & B.Sc. students were interested and taken benefit of this course.

Welding is fabrication process that joins metals. This is often done by molten the materials and adding filler materials into it. Therefore safety is required so, we implements safety regulations and handling of instruments into students. We conducted Theory lectures as well as practical's. Students learnt all basic information about this course and also learnt different types of joints (i.e. Butt Joint, Lap Joint, Corner Joint, Tee Joint & Edge Joint). We got positive response from students.

WELDING AND FABRICATION









VSPM Academy of Higher Education, Nagpur

Arvindbabu Deshmukh Mahavidyalaya, Bharsingi

Certificate Course

Welding and Fabrication

Syllabus

Sr. No.	Торіс	Syllabus	Period (Hour)
1	Apply Safe Working	1. Importance of trade training.	
	practice	2. Machinery used in the trade.	5
		3. Introduction to safety equipment and their use.	
		4. Hack sawing, filling square to dimensions.	
		5. Safety precautions in Shielding Metal Arc	
		Welding, and Oxy-Acetylene Welding and Cutting	
2	Join MS sheet by gas	1. Setting up of Arc welding machine & accessories	
	welding in different positions.	and striking an arc.	4
		2. Setting of oxy-acetylene welding equipment,	
		lighting and setting of flame.	
3	Join MS plates by	1. Fusion run without and with filler rod on MS sheet	
	SMAW in different positions.	2mm thick in flat position	6
position	F	2. Edge joint on MS sheet 2mm thick in flat position	
		without filler rod.	
		3.Marking and straight line cutting of MS plate 10	
		mm thick by gas	
4	Perform straight,	1. Straight line beads on MS plate 10 mm thick in flat	
	bevel & circular cutting on MS plate by oxyacetylene	positions.	15

	2. Weaved bead on MS plate 10mm thick in flat	
	position	
	3. Square butt joint on MS sheet 2 mm thick in flat	
	position.	
	4. Fillet 'T" Joint on MS plate 10 mm thick in flat	
	position.	
	5. Bevelling of MS plates 10mm thick by gas cutting.	
	6. Open corner joint on MS 2 mm thick on flat	
	position.	
	7. Filler Lap joint on MS sheet 2 mm thick in flat	
	position.	
	8. Single 'V' Butt joint on MS sheet. 12 mm thick in	
	flat position	
	9. Square Butt joint on MS sheet 2mm thick in	
	Horizontal position.	
	10.Straight line beads and multilayer practice on MS	
	plate 10 mm thick in Horizontal position.	
	11. Different type of pipe welding	

Mr. More Mr. S. R. Shingda Principal

Teacher of Course Coordinator of Course