I N D E X

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Subject: Mechanical workshap Roll No. 10 (2)
Session: Semester:

S. No.	Description of the Project	Page No.	Date of Project	Date of Submission	Teacher's
01	FITTING SHOP		Traject	20010122100	Sign./Remarks
Ao	Tolor is at a difficulti		19-08-19	19-08-18	Mufery
	of marking, filling of				B
	sawing on given				
	metallic walk piece.				
в.	To has been the of a time				
D.	The special of		26-08-19	26-08-19	Morran
	of drilling of masting				B
	metallic piece.				
	metallic piece.				
	T- 101-h +10				0
c.	To develop the		02-09-15	02-sep-19	MASCEN BY
	operation of making				7 (3)
	external & internal				
	thread.				
0,2	WELDING. SHOP.				
Α.	To study the different		2-12-13	2-12-19	Mofary
	types of welding defect				0
	and different type of				
	hard tools used in utelding				

List of Experiments.

prepare different nocers 7 tools help of electric brocess in weldin

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etectoric 0 Pu 3 process

WELDING JOINTS

- 1. but Joint: - In this type of joint the edges are unitding in the same plane with each other v U shapes are given to the edges to make the joints strong. with each other V or the edges are
- N two succeedabing protes so that the some of plate each each plate is joined with the surface of other lop, double lop or effects lop faint. nonmos types of lop joints are single
- 7- jaint : argle between at right rangles when the surface is kept 90°. 200 the surfaces are to joint is called T-joint be wielded

W

Corner Joint :-Kept tro made sheets are joined at right in frames argle to each other such points In this joint steel boxes etc. and their surface are the edges 9

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Plug integ of riverts Joint: Plug joint and polts are used 5 total

id

Page in Shinatal

locals Used In Welding Shap

- (9) ulclang 2 head non ruldin rulmet: flash 8 used bus protect 1 when uuldig ares ace and Certain TREA 3
- O uleldur American study toaggle: National pretition metal and 5. also standards usibily is reeded have glass Joseph Tot Tristitute ANSI tre standards when
- 0 hipping alongside Lag (Rom Hammer: sulleds. 8 sueld 5 welder used 8 Spatter remoure 202
- Electrocle and The clestrode 1200 Rasy duran Holder device exchange holdus 7 electrode 2 An och holding なる electrode heldel use. 8 electrode holder bermits types 5. safethy 9 7 muk

0

Mon - Insulated

0

3

EXPERIMENT -1

process hand tooks used in welding shop. melding difect and different type of 10 study the affunt type

Various types of milding.

wilding many combination metals gas melding: - It is a proce Keated up by the welding 5 wrygen and acetylene. flame metals to be but Hours the and It is a process of gases nost 3 joined. The metal are waling rommos 3 are it uniding the the temperature 5 used solidifies. of these which a

Axe of joining are is produced welding: welding. two surfaces is called electric The you me milding 5. heat which electric tor the purpose

2

torge 3 that places are heated block -smiths the ruelding :points 9 furance. There it is hammered so nomogeneous . In this process upto This nixtue welding the plastic stage is formed at some 8 done metal by

thux: 3 7 oxides dissolues substance and other them that and contaminants facilities prements semound 5 hormotion

Provides Stabilizers Protection asc. atmosphere 200 sulding

Reduces spattering

ament resistance fitter part where Resistance and 5. metal 5 2 50 2 T produced circuit 5 5 welding the the 9 speam needed 2 non application Z which 5 the £, tre welding 7 8. heat obtained from of the husure yeom elutric houses 5

Out comes :-

experiments understant publing tools. mocess 3 the the successful different afects student and will completion 2 Heunt 7 20 able 7 types this 8 bracess

Experiment - 2

electric 70 an prepare uilding, foint

naterial two 350 mm. siece used: 325 electrode 25 plate 3.15 mm 9 517C dua 100 X [SWGIO] 4 X Lugt

Tools elictopeli holder ALC hanner Heel. rule metang A Experiments ince machine , earth shield Lamner Required with all the dam etc. ball of torquare accessories

Produce:

5 chan on arking Hat Tack brish stact tres beth det with boution and tre and tre 8 milding hipping 7 duting aurent Ade the toursformer 9 the tre B ranner points appeak complete 35 welden that and will keeping markine 200 layer ants. tayer. A

Jucantions:

reuce face Look shield are without

Always pparels

Buch Tot 8 Edt rands

ready tud current and electrodes xx

Result the use 8 duthu 5 22 successfully blocers repared

automes: -

xom S brocers with the relp pletion 6 2 able electric #3 abancation experiment melde

Stockel by Stay

Experiment - 3

Object of electrode To prepare are welding process. B but point by the

material rused:two piece ms electrode 350 mm. MS plate of size (100×50×7)mm 3.15mm dia (5m410]

Tools A Equipment Required: "-

Auc electrode steel nommel, face wilding Suler nolder machine ` shilld hannel , earth with bair damp, try square Sections of tongs chipping the auexones

2 7 w Set the start Take narkeda trat choo Procedure: brush both the welding transformer position lamplets with wwent and cutting the ms flat the sides 9 dipping to approx 2 the layer Lammer joints 100 amp. madire Keeping and and the Q the whe

Neur face Precaution: look shield. at the welding 28 without

Sage He Squeeded

Amays wear apparels frexible gloves

rleur touch the heat job with hards

use specified welding. surest and electrodes for one

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Result !-The we Butt of electric faint are melding process. is successfully prepared

experiment Outcomes:fabrication are uniding process. on successful completion of the the student will be able for what with the help of electric

Limbello Gam

wild naterial. doise -: pinare throughout THE the seed. Pitti: - Sonall industrions in the suffere of had extend to the durind depth. Insufficient Peretation: - weld bead du des · posnt The metal is not completely. are not rempletely fused. rempleted fused to bear netal are passes Lan de Loter -: The metal is not less than spruipications. Exemplete Joint: - The depth of the joint is - FULLINGY ely using destructive or non-destructive Expetts that are not visible can be detected · prom and affect the appearance of the 4160048 in the completed weld that reduces the A sulle defent is any physical dosaucustics

Different Types of Welding Buffells:

Vertical Cracks: - Usually visible wacks on the surface or through the weld.

Safety Precaution: -

wear eye protection and could bare skin. Be aware that: -

- · Are flash can accourse through the side of the eye.

 Are flash can lause sur buch' on exposed skir.
- you can smell gas don't light gas toxhes or use electric welding equipment. But don't rely wholly on your sense of smell to warm
- 3) nask hot surface as such, better still, assume everthying is not.
- 4) know how to some gas equipment safely.
- 5) resure the Equipment has the lowest luvent capacity.