

VEDANTA LIMITED – VALUE ADDED BUSINESS	Format No.:	VL/IMS/PP2/MECH/WI/8
INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05.04.2021
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Work instruction for Welder certification	Page No.:	1 of 2

Objective : - Certification of welder to ensure quality job

Scope : - power plant & Accessories

Responsibility: - Engineer In charge

PPE –s to be used: Helmet, Safety shoes, Cotton cloth, hand gloves, apron and goggles,

Aspect – impact:

Scrap generation Resource Depletion

Fumes Health

Hazards identified : Electrical Hazard

Shock While welding the plates

Mechanical hazard

Fall of test plates

Physical hazard

- Fall of DP spray in eyes
- inhaling fumes

Human behavior

- No usage of PPE
- Alcoholism
- Over confidence
- Negligence

Safety precautions:

- Avoid using mobile phone while working.
- Use appropriate tools required for the job.
- After job always do proper housekeeping.
- Always prevent body from line of action of force.
- Perform proper communication verbal and non-verbal as required.

Work No 1: Certification of welder (Internal Procedure)

- Check knowledge of the welder by asking questions related to welding quality, machines and safety.
- Check the Experience and the competency of the welder for carrying out the welding activity
- Weld the V notch plate and double V notch plate in all three directions i.e. in 3G & 4G
 positions with filler material of 3.15 mm with welding progression from downward for 4G
 and vertically upward for 3G.
- Check the welding quality of welding by guidelines given below:

GUIDELINE FOR POINTING SCHEME FOR WLEDERS QULAIFICATION:

Prepared & Reviewed:	Approved:	Issued:
HOD – Mech – PP	Head – MetCoke & Power	MR
05.04.2021	05.04.2021	05.04.2021



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- Question & Answer session (Oral coordination) Max 10 Points
- Safety care taken by welder Max 10 Points
- Environmental care being taken Max 10 Points
- Parameter selected/taken for welding Max 10 Points Current selection
 Fixture selected etc
 Time taken for welding
- DP test clearance Max 10 Points

GUIDELINES FOR WELDING & TESTING:

- Current range selected by welder (Recommended 80-140 A)
- Travel Speed of welding (Recommended 50 mm/min)
- Length of continuity of welding (Recommended 5 cm)
- Check for the Quality of the Job carried out visually for any spits of welding
- Check the welding using Dry penetrate test for root welding & access the quality of welding.
- Welder can be Approved if the welder get min 30 points out of 50 as per below pointing scheme & should get a score of min 5 in DP test
- VALIDITY OF CERTIFICATION 1 YEAR. ALL NEW ENTRANTS TO PASS WELDING TEST.

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