

## CER/GD/06: KEBS CERTIFICATION BODY (KEBS-CB)- WELDER CERTIFICATION SCHEME

### SUMMARY STEPS TO WELDER CERTIFICATION

#### **a) Initial Certification of Welder**

1. Persons interested will contact KEBS-CB on CBManagement@kebs.org, 020-6948336/299/263, to be given a copy of Welder code of conduct to read and, if they agree to KEBS-CB requirements, to return a signed copy of the code to KEBS-CB.
2. Application for welder certification: The applicant fills application form, pays the application fee of Kshs 2,000/= + VAT and submits the relevant documents for review i.e. CV, Academics certificates, Professional certificates and proof of experience to be indicated on KEBS Welder log.
3. The application documents are reviewed by KEBS-CB and the applicant is informed on the next steps
4. If the minimum requirements are met, the applicant is instructed to pay for qualification and certification fees as indicated on the application form.
5. The fees for self-sponsored individuals are;
  - a) Qualification fee – Plate Kshs 8,000/-, Pipe Kshs 10,000/- (VAT exclusive)
  - b) Certification fee – Kshs 8,000 (VAT exclusive)
  - There is a different fee structure for corporate clients which can be obtained by using the above contacts
  - KEBS reserves the right to revise any fee as necessary without consulting the applicant
6. The KEBS-CB officer and the applicant agree on date(s) to do the tests i.e. practical and oral/written examination.
7. KEBS-CB will provide the WPS to applicants on request, and especially to individuals.
8. The coupon(s) made by welder are taken to KEBS laboratory for quality testing by Destructive and NDT methods for the purpose of welder qualification.
9. The applicant takes oral or written examination as determined by the qualified examiner. This will be used to gauge the welder's knowledge on safety practices and general welding practice.
10. Laboratory test results (item 5 above) and examination results (item 6 above) are presented to welder certification decision committee at KEBS-CB.
11. The applicant is informed about the laboratory test results, the examination results and the certification decision, including any recommendations.
12. For successful applicants, a certification contract will be signed between KEBS and the certified person, and a certificate for the certified person is processed. The contract and certificate are valid for 3 years renewable.
13. An original contract and certificate are forwarded to the certified welder.

#### **b) Minimum Requirements for Applicants**

- i. Technical training in welding/basic welding and safety training or
- ii. Welder's qualification test certificates for previous work done or
- iii. At least 2 years' of welding experience i.e. in whichever welding type e.g. MIG, TIG, ARC with recommendation from employer
- iv. National identification card copy
- v. Resume (CV)
- vi. Passport photo
- vii. Ability to operate precision measuring devices such as calipers, micrometers, protractors, and tape measure
- viii. Age 18 years and above

**c) Re-certification of Welder after 3 years**

The process for re-certification shall follow the same procedure as for the initial certification. However, only the qualification and certification fees will be paid. The welder will be required to forward to KEBS-CB an updated and duly signed welder log as evidence of continued practice.

**d) Welder Job Description**

The Welder has primary responsibility in either Arc, Tig and Mig welding of aluminum and steel (also, stainless steel) parts. Each job must be run with safety, accuracy and timeliness in the welding area.

**Welder Principal duties and responsibility**

- Utilize plasma, gas or electric arc in welding metallic and composite materials together
- Heat and dissolve metal parts to obtain molten substance used in welding or extrusion
- Oversee the installation of tank linings, valves, lead pipes, and floor
- Operate manual and semi-automatic welding equipment in vertical, horizontal, or overhead positions
- Repair structures by dismantling, reshaping, and reassembling metal components using cutting torches and hand tools
- Maintain an up-to-date knowledge of local and international building codes/legal requirements
- Monitor work equipment to ensure usage is within optimum temperature to avoid overheating or expansion
- Prepare metal surfaces by cleaning with chemical solutions and wire brushes to remove impurities such as scale, rust, grease, and moisture
- Design patterns and models for a welding project using specifications contained in a blueprint
- Direct electrodes on or across metal work pieces to melt, bend or straighten them
- Conduct estimates to determine the amount and cost of materials required for construction
- Create quality welds according to blueprints (weld symbols).
- Inspect welds for accuracy.
- Prepare product to be welded by grinding, drilling, milling, tapping and cutting steel/aluminum parts.
- Change wire, welding, as needed
- Change gas tanks, as needed
- Responsible for the proper packaging, identifying and moving of all finished products to the proper location.
- Ensure all equipment is properly set-up and used in a safe manner and that all safety devices are present and used appropriately

**e) Performance Expectations of a Certified Welder**

1. Adheres to all Safety, Quality, Accuracy, Timeliness, Reliability and Thoroughness requirements for work performed
2. Gains the trust and respect of the shift supervisor, co-workers and other employees;
3. Develops good working relationships with the shift supervisor, co-workers and other employees.
4. Develops working knowledge of the production environment and has ability to respond to change Works to Continuously Improve the operations of the employer through Lean activities and Improvement suggestions.