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What are the skills and abilities required?

Guide to Welding



Chantelle, to be successful in this trade, you will need to develop the following abilities...

- Manual dexterity
- Good vision (glasses are acceptable)
- Eye-hand coordination
- The ability to concentrate on detailed work
- Patience

Once you have obtained a qualification and the relevant skills in this trade, you have CHOICES!

You can either find employment.
OR
Start your own business.

For more information, please contact the merSETA Call Centre on **086 163 7738**

For additional Support, you may also visit: **NYDA** www.nyda.gov.za



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Guide to Welding



A Step by Step guide to becoming a welder

An essential guide showing learners how to prepare for their chosen careers

LEADERS IN CLOSING THE SKILLS GAP

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What do Welders do, Mr. Naidoo?

Guide to Welding



Welders fuse metals together using tools that produce high temperatures, such as blow torches, alligator clips and welding rods

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When qualified, what will my duties be?

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A new world will be opened to you...

- Lays out, cuts, bends, and fits material for welding;
- Welds items such as boiler tubing, pipe sections and fittings, brackets, tanks, transformers, high pressure turbine cases, transformer cases, fabricated metal parts, crankcases, radiators, frames, automotive bodies, and hydraulic runners; brazes metals;
- Applies hard surfaces to special parts requiring a high degree of hardness, such as power shovel bucket teeth, grader blades, and cutting tools;
- Builds up worn and undersized machine parts;
- Inspects, approves, and rejects contract welding;
- Takes and directs the taking of samples of welding work;
- Inspects welds for porosity and degree of penetration; makes and uses templates and jigs;
- Cleans and heats metals;
- Sets up, regulates, maintains, and makes minor repairs to welding equipment;
- Cleans, peens, and grinds completed welds;
- Keeps records of time and materials for various jobs;
- May repair leaks on water mains in service;
- May be required to operate a submerged arc or inert welding machines;
- May work in stress relieving or frame straightening on large automotive apparatus;
- May operate metal spraying and automated cutting equipment and may assist supervisor in designing modifications in equipment

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What do I do before leaving school?

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Find information from welders in your community and visiting Welding training centres

Mr. Naidoo, what are the **minimum entry** requirements?

- Grade 9 with maths and science with Afrikaans or English Language
 - Able to perform work of the trade
 - At least 16 years old
- NOTE: Some companies set higher entry requirements

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Mr. Naidoo, how do I apply for training?

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Apprenticeships/Learnerships Offered

Check for advertisements for apprenticeships and learnerships

- Identify your area of interest
- Compile your CV
- Check for advertisements for apprenticeship/learnership opportunities in newspapers or register on relevant database
- After finding an advertised opportunity, familiarise yourself with the company
- Send your application and prepare for interview if short listed

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What are the working conditions?

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Chantelle, welders work outdoors and in shops that are often noisy, but lighting and ventilation are generally good

The work requires physical activity. Possible work hazards are, flying metal chips, falling metal objects and burns from welding torches. Workers closely follow safety steps and use equipment such as welding hoods to prevent accidents.