



All-round welder

Job characteristics

Short description

A welder welds parts together, using different techniques and in different positions. He also applies separating and distorting techniques. This may involve single items or series of products. Welders obtain certificates because their product must meet quality requirements.

Other names for this function

Welder – B
Pipe welder
Plate welder
Master welder
Construction welder

Is found in

Companies or departments specialized in sheet metal, industrial harbour or construction work.

Position within the company

Receives orders from business office, foreman and/or workshop manager. Works under the direct supervision of the foreman. Reports to the workshop manager

Areas

Independent in construction, modification or repair of steel structures.
Personal safety
Good cooperation with colleagues
Support from less experienced colleagues

Independence

The time schedule is fixed by the assigned work program
The approach is usually determined by the situation or explained in advance in a pre-work meeting.
The worker has his own input into the working method
Must solve problems yourself based on insight and (several years) experience
Management is usually available for questions
Contacts with supplying and service departments must run smoothly (also in connection with quality assurance, for example in the case of deviating drawings).
If necessary, provides (functional) guidance to additional technicians

Complexity

The position is aimed at carrying out a variety of activities within (light) steel construction work, which requires a good overall overview of the (always different) assignments.
Welding can be executed in contained spaces, e.g. containers, vessels.
Must apply high technical quality welding techniques
This may involve short-term assignments

Risk of failure

Mistakes of various kinds disrupt progress in the department, lead to extra work (up to a man-day) and/or to loss of material.
Self-control should increase the chance of discovery
Any contacts with customers when needed are aimed at a smooth transfer of information



Educational attainment

MBO 3 or equivalent.

Mental and physical strain

Works in normal production area. Is somewhat bothered by noise

Must either frequently lift or work in a different position (kneeling, stooping, lying, etc.)

Must wear protective equipment. Risk of injury

Movement precision is regularly required: considerable control with high accuracy (marking, welding, cutting)

Tasks

General metalworking techniques

- Measuring and marking materials and parts
- Post-processing of materials
- Connecting parts

Quality, occupational health and safety and environment (KAM)

- Reporting malfunctions and deviations
- Applying KAM regulations (quality, occupational health and safety, environmental regulations)

Welding and construction

- Autogenous welding (general)
- Processing and connecting pipes
- Arc welding with coated electrode (BMBE general)
- Certified autogenous welding level 1
- Certified autogenous welding level 2
- Certified autogenous welding level 3
- Certified autogenous welding level 4
- Certified arc welding with coated electrode level 1 (BMBE1)
- Certified arc welding with coated electrode level 2 (BMBE2)
- Certified arc welding with coated electrode level 3 (BMBE3)
- Certified welding level 1
- Certified welding level 2
- Certified welding level 3
- Certified welding level 4
- Certified MIG welding level 1
- Certified MIG welding level 2
- Certified MIG welding level 4
- Certified TIG welding level 1 (steel, stainless steel, aluminum)
- Certified TIG welding level 2 (steel, stainless steel, aluminum)
- Measuring construction or installation parts
- MIG or mag welding (general)
- Tig welding (general)



Organization of own work

- Checking and measuring own work
- Choosing the right tools
- Reading and interpreting work instructions and assignments
- Reading (technical) drawings
- Tidying up and cleaning the workplace
- Planning own activities

Consultation and coordination

- Participate in work consultations and/or toolbox meetings
- Inform about progress
- Informing and collaborating with colleagues

Sheet metal working

- Separation of material

Product and process quality

- Checking supplied material for semi-finished products

Project management

- Drawing up checklists

Service and maintenance (general)

- Cut to size or shorten
- Work preparation
- Determining installation methods and choice of materials

Knowledge and skills

To properly perform the duties, the employee needs the following knowledge and skills.

General technical skills

- Knowledge of materials and resources
- Measuring techniques and measuring tools
- Spatial awareness
- Read drawings / plans

Editing techniques

- Welding technology
- Joining techniques

Create and analyze

- Analyze
- To learn



Knowledge of construction and technology

- Knowledge of building constructions
- Knowledge of steel structures and boats

Knowledge of quality, safety, health and environment

- Knowledge of quality standards and tolerances
- Quality assurance
- Standards for safety, health, welfare and the environment

Organize and execute

- Follow instructions and procedures
- Care

Collaborate and interact with others

- Show attention and understanding
- Act ethically and with integrity
- To collaborate

Separation techniques

- Punching and separating techniques
- Separating techniques

Credentials

Various diplomas and certificates

VCA certificate according EU standards

Welding certificates

- Autogenous welding 1
- Autogenous welding 2
- Autogenous welding 3
- Autogenous welding 4
- Arc welding MBE 1
- Arc welding MBE 2
- Arc welding MBE 3
- MAG welding 1
- MAG welding 2
- MAG welding 3
- MAG welding 4
- MIG welding 1
- MIG welding 2
- MIG welding 4
- TIG welding 1
- TIG welding 2

Preferred courses

Course

All-round welder