



ENGINEERING LEARNERSHIP



BOILERMAKER

93626



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www.zoneups.com



405 Cliff Ave, Waterkloofridge, Pretoria



BOOK NOW



3 YEARS



CLASSROOM TRAINING



NQF LEVEL 4 CREDITS (395)

ABOUT THE COURSE

The Boilermaker qualification prepares learners to mark off and fabricate structural steel and other metal stock to make or repair metal products and structures, including pressure vessels and pipes. It covers interpreting drawings, developing patterns and templates, using trade-related tools and machinery, cutting and welding, fabricating components, and erecting and assembling plate and pipe structures.

This curriculum is designed for work across industries such as engineering, chemical, fabrication, mining, and ship making, and includes strong practical and workplace experience components.



Target Audience

- Learners who want to enter the boilermaking trade
- People interested in fabrication, welding, pipework, and metal assembly
- Individuals wanting practical trade skills in metalwork and structural steel environments
- Entry-level learners with mathematics background

PRICE

CLASSROOM TRAINING:
(PRICE ON REQUEST)

(Includes snacks and beverages – only applicable to classroom bookings)

KNOWLEDGE MODULES

SMART ZONE

- Introduction to the Boilermaker Trade
- Boilermaker Tools, Equipment, Machines and Materials
- Fabrication and Pipework
- Assembling and Joining
- Cutting and Welding
- Boilermaker's Drawings

KNOWLEDGE AREAS

SMART ZONE

- Occupational health, safety and environment
- Quality control and quality assurance
- Fabrication practices and methods
- Trade-related hand tools, power tools, machines, and CNC applications
- Materials used in fabrication
- Pipe and plate templates
- Pipe work characteristics and pipe marking-off
- Lifting, hoisting, and slinging
- Welding, oxy-fuel cutting, plasma cutting, automated cutting, laser jet, and water jet cutting
- Engineering drawing principles, geometry, measurement, projections, and freehand sketching

WORK BASED AREAS

SMART ZONE

- Pattern and template development
- Tools, equipment and machinery maintenance and operation
- Workshop or on-site cutting and welding
- Fabrication, assembling and repairing of metal components and structures
- Assembling and erecting of structures and components

PRACTICAL SKILLS

SMART ZONE

- Read engineering drawings and compile material lists
- Draw and interpret plate, pipe, and structural steel drawings
- Construct developments and mark off materials
- Maintain and use hand tools, power tools, stationary machinery, and measuring tools
- Maintain cutting and welding equipment
- Use access equipment safely
- Weld and gas cut components for fabrication
- Prepare joints and apply heat prior to tack welding
- Minimise and correct welding distortions
- Weld using MIG, TIG, arc welding, and oxy-fuel methods
- Handle materials and workpieces safely
- Form material using rollers and benders
- Fabricate components, structures, and pipe sections
- Erect, assemble, join, fasten, and inspect metal structures and pipe systems

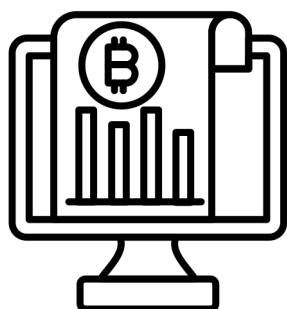
KEY FEATURES

SMART ZONE

- Occupational Qualification: Boilermaker
- Curriculum Code: 651302000
- NQF Level 4
- Total Credits: 395
- 6 Knowledge Modules
- 5 Practical Skill Modules
- 5 Work Experience Modules
- Development Quality Partner: CHIETA
- Assessment Quality Partner: National Artisan Moderating Body
- Includes theory, practical skills, and workplace experience
- Covers fabrication, pipework, cutting, welding, assembly, rigging, and technical drawings

BENEFITS OF THIS LEARNERSHIP

- Builds strong practical skills in fabrication, welding, assembly, and pipework
- Prepares learners for work in engineering, mining, fabrication, chemical, and ship-making environments
- Develops the ability to interpret drawings and convert them into finished components and structures
- Strengthens competence in handling tools, machines, materials, and equipment safely
- Provides extensive practical and workplace-based learning
- Supports employment in metal fabrication, structural steel, and industrial construction sectors
- Builds skills for repairing and manufacturing heavy-duty metal products and structures





SIGN UP NOW

SIGN UP NOW AND SECURE YOUR PLACE

1. Register Online – www.zoneups.com
2. Select the training you prefer and the date you would like to attend.
3. Fill in the registration form.
4. Choose your payment method and finalize the booking.

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Accreditation



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