



ENGINEERING

Master Class



COMMERCIAL NATURAL GAS
PRACTITIONER

122580



010 085 0918



www.zoneups.com



405 Cliff Ave, Waterkloofridge, Pretoria



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18-24 Months



Classroom & Online Training



NQF Level 4 CREDITS (59)

ABOUT THIS COURSE

The Commercial Natural Gas Practitioner course prepares learners to work with commercial natural gas and biogas systems in line with legal, safety and industry requirements.

Learners are introduced to the design, installation, inspection, commissioning, maintenance, repair and decommissioning of commercial natural gas systems.

This programme covers the knowledge, practical skills and workplace experience required to determine customer energy needs, design legally compliant systems, install commercial gas systems, test and commission installations, and maintain systems for safe and reliable operation.



Target Audience

- Community members
- School leavers
- Current care workers
- NGO and outreach staff
- Primary health teams
- Household care assistants
- Social service support

PRICE

ONLINE:(Price on Request)

CLASSROOM: (Price on request)
(Includes snacks and beverage
– only applicable to classroom
bookings)

KNOWLEDGE MODULES

SMART ZONE

- Intermediate Gas Science for Commercial Natural Gas Systems
- Gas supply value chain
- Flammable gases, oxidising gases, toxic and corrosive gases
- Basic principles of combustion
- Commercial natural gas and biogas installations
- Supply, delivery and control systems
- Air delivery, ventilation and mixing systems
- Burner, ignition and flame management systems
- Flue configurations
- Commercial natural gas system design
- Design scope, site considerations and limitations
- Appliance selection and volume requirements
- Delivery piping configuration
- Safety verification of designs
- Design documentation, costing, bill of materials and quotations
- Gas regulations, legislation, standards and by-laws

PRATICAL SKILLS

SMART ZONE

- Weld and gas cut components for commercial natural gas installations
- Cut material using saws
- Prepare joints according to specifications and standards
- Perform tack welding and minimise welding distortions
- Weld using wire-feed and arc welding methods
- Perform oxy-fuel gas welding and brazing
- Apply gas cutting and heating
- Maintain cutting and welding equipment
- Determine gas supply and customer energy requirements
- Conduct site inspections and risk assessments
- Prepare trenching for commercial gas installations
- Compile a bill of materials
- Design a legally compliant commercial natural gas system
- Read and interpret plans, drawings and P&ID diagrams
- Compile site plans, sketches and system drawings
- Construct, assemble and install commercial natural gas systems
- Apply recognised pipe coding and directional marking
- Conduct pressure and leak testing

WORK BASED AREAS

SMART ZONE

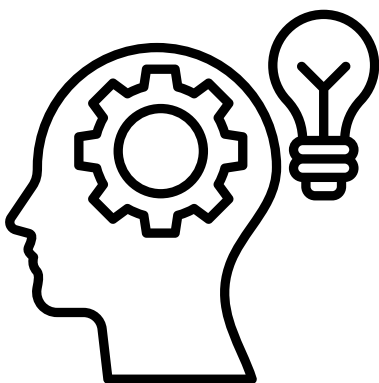
- Commercial natural gas installation sites
- Biogas installation sites
- Commercial kitchens and facilities
- Industrial gas supply areas
- Gas reticulation systems
- Bulk and manifold gas supply systems
- Pipeline installation areas
- Trenching and underground pipe routes
- Plant rooms and mechanical service areas
- Burner and boiler system areas
- Commissioning and testing environments
- Maintenance workshops
- Customer sites and commercial premises
- Inspection and compliance environments
- Project planning and costing offices
- Design and drawing environments
- Worksites requiring permits and safety controls

FEATURES

- Occupational Certificate: Commercial Natural Gas Practitioner
- Curriculum Code: 642603002
- Covers commercial natural gas and biogas systems
- Includes knowledge, practical skills and workplace experience
- Covers design, installation, commissioning, inspection and maintenance
- Includes gas science, combustion, ventilation, burners and flue systems
- Covers regulations, legislation, standards, by-laws and compliance
- Includes welding, cutting, pressure testing and leak testing
- Supports safe work practices and legal certification requirements

BENEFITS OF THIS LEARNERSHIP

- Builds practical skills for commercial natural gas installations
- Improves understanding of gas system safety and compliance
- Develops design, costing and project planning knowledge
- Strengthens installation, testing and commissioning skills
- Builds confidence in maintenance, troubleshooting and repair
- Supports legal and code-compliant gas system work
- Prepares learners for workplace-based commercial gas experience
- Improves client communication, handover and documentation skills





SIGN UP NOW

SIGN UP NOW AND SECURE YOUR PLACE

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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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