

COMPANY PROFILE





Our Company

Products & Services

Launched in 2014, Metcode is an inspired tech company based in Pretoria. We believe there is a better way to offers solutions to businesses, a more valuable, less invasive way where clients decide what they want rather than sold a dream.

Metcode's philosophy is to always solve complex problems by thinking out-of-the-box and maybe a little obsessively.

We are a specialist provider, leveraging world-class technology and leading practices to design, implement and support sustainable Automation and Control solutions that are strategically aligned, fit for purpose, cost-effective and optimized for performance.

The breadth of our solutions span all industries and the depth of our knowledge is why you would want to collaborate with us.





Managed Services

Reducing cost and increasing efficiency by centralizing, automating, and innovating all process operations.

Automation

Make data-driven predictions, optimize radically, and personalize based on trends and anomalies

Product Supply

Providing comprehensive engineering solutions and products, partnering with all major brands

We started Metcode to meet the need for simple, affordable, fast and solid managed tech solutions.

While there are thousands of tech solutions companies, there is only a handful who are ad-hoc and customized; offering as and when required support and quick response, catering for your needs and on our client's timeline.

Metcode (Pty) Ltd
is headquartered
in Pretoria.

We provide tech
solutions for clients
in all nine provinces
of South Africa.

We believe that people
Can accomplish anything

Our mission is to inspire change and
accelerate evolution to a world of free
thinkers.





Broad-Based Black Economic Empowerment

We are a level 1 B-BBEE contributor, 100% black owned, managed and controlled company.



Insight | Industries

Seamless integrated automation solution for Mining, Metals & Refining

The link that ties your entire process together.

Solutions spanning the entire automation and IT spectrum - from sensors to business decisions, and from Planning to execution.

Mining, Minerals, & Metal Processing is one of Metcode's most popular categories. We have provided engineering services to mining companies for difficult and challenging mining applications. In the Metal processing industry, Metcode has had a significant amount of work to do in the area of automation. This category has also been used to categorize projects involving process instrumentation maintenance and metal handling, two industries that are extensively used by many companies.

Automated mining: our offerings

To run a smart mining operation, you need meaningful data. In order to maximize yield rates and remain competitive, mining companies need to have an effective process control system that includes everything from accurate chemical dosages to remote, integrated control systems. Regardless of how challenging your mining process may be, Metcode has a solution for you.





Process Control Systems

Our systems integration expertise is applied to engineer (software) complex solutions based on Customer requirement. Our independent status in the tech industry allows us to focus on the best solution regardless of what product manufacturer or technology platform we use.

Metcode can assist with the creation, manageability and improvement of your process control systems such as SCADA and PLC's to ensure your manufacturing processes are performing at its most effective level. In addition to testing your processes in a range of ways, we can collate the data for monitoring and troubleshooting to enable speedy corrections and enhance the overall effectiveness of your automation operation





Profibus Audits

Metcode has certified Profibus engineers who perform extensive audits on PROFIBUS networks to ensure your network runs smoothly. We offer network audits to have a full health check-up of your PROFIBUS network. Planned audits are an efficient and swift way of preventing lost time within your system.



We provide troubleshooting services for existing installations. Additionally, we provide services like remote management and redesigning existing topologies.





Project Management & Consulting

We offer complete project management services for industrial automation system development and installation. Our consulting services also include performing technical studies, diagnosing problems and ensuring that your project meets all health and safety regulations.

Our team has experience and training at each stage of the integration process, so we are prepared to manage the project development and management phases of your industrial automation project.

Automation Support and Maintenance

We offer maintenance agreements that include guaranteed response times, 24-hour site presence, and tailor-made shift patterns as well as holiday cover for both weekly and annual agreements.

Our technicians are also available 24 hours a day for breakdowns and preventative maintenance

Contract Engineers

Depending on your needs, our personnel can be engaged on a contract basis to fill the engineering roles within your team and to assist with project execution for short-term or long-term assignments.

To ensure you get the right person for the job every time, we are fully flexible and adapt to the specific role requirements.

The following areas of expertise are within our reach:

- PLC programmers & Control Systems Engineers
- Projects Managers
- Qualified Instrumentation Technicians
- Qualified Electricians
- Metallurgical Engineers



Electrical & Instrumentation Installations

The team at Metcode has experience implementing all kinds of instrumentation and electrical systems. Our team successfully manages all types of projects and their inherent risks whether it is a small operation or a large greenfield project.

In terms of quality, HSE, and economics, our embedded management system processes deliver successful outcomes.

In addition to construction, supervision, and project management, we provide services in the following areas:

- Instrumentation, Control and field monitoring
- PLC & HMI Systems
- Variable Frequency Drives and servos

Instrumentation & control product Supplies

Over the past decade, we have seen the demand for replacement parts in the instrumentation sales field grow considerably. This is due to the frequent fluctuations in exchange rates and our clients' constant search for ways to cut costs. With our knowledge, we are able to make sure that we can supply quality parts at the lowest prices today, which makes us the supplier of choice.

In the event of a breakdown in production, our clients risk a loss of production and revenue. Therefore, we know how critical it is for our clients to be operating at full capacity.





CASE STUDY

Overview

Metcode offers Audits and Troubleshooting services for Profibus networks to customers in metals, refineries, and bulk handling operations. Utilising the latest tools on the market, we help our clients with network layout design solutions and technology implementation. offers Profibus Network Audits and Troubleshooting services to its clients in metals, Refining and Bulk handling industries. We help our clients with network layout design solutions & technology implementation using the latest tools in the market.

Challenge | The problem at hand

Our client had ongoing issues with frequent plant stoppages caused by unnecessary Profibus trips, resulting in reduced production capacity. There were several factors contributing to this problem.

There were intermittent trips that were nearly impossible to pinpoint without the right testing equipment and expertise. Eventually, the equipment became completely inoperable. This resulted in a 36-hour production delay.

Another problem was that all the Profibus devices would automatically indicate a healthy network status after the trips occurred, resulting in us chasing bread crumbs without solid diagnostic information to guide us.

Solution | Solving the problem

Metcode Engineers recommended a Procentec Mercury pro kit, and our junior Engineers implemented troubleshooting. With Profitrace we were able to diagnose each Profibus segment in real-time.

Overtermination caused intermittent reflections in network segments which could easily be identified. In addition, the Profibus installation rules were not properly observed during installation.

Result | What the client Got

Despite in-house technicians' efforts, this issue had been going on for months. A number of items had been replaced, and countless hours were spent trying to resolve this issue. Our engineers were able to resolve the issue in under two hours, including the time it took to figure out the best approach to use.

Our engineers were able to eliminate the problem, resulting in an increase in plant availability of over 97% to date.

“Our engineers were able to eliminate the problem completely, which boosted plant availability by well over 97%”





Where we work

We are happy to hear from you. If you have ideas or would like us to participate in a project, we are always open to discussion.

Valve Component
Suppliers in
Vanderbiljpark

Our Headquarters In
Pretoria

Solutions
Partners in
Middelburg



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