



COMPANY PROFILE



OUR VISION & MISSION

Our Vision and Mission is to serve our customers based on three areas of excellence, namely, **Commitment, Communication and Compliance**, thereby proving to be a best in class small to medium business offering Customised Technology Solutions for the industry and domestic market from concept to delivery.



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RASCALS AUTOMATION was founded to provide professional accredited customised solutions for technology in the industrial and domestic markets, from concept to delivery.

OUR SERVICES INCLUDE:

- **RASCALS TRAINING**
 - Customised Training Solutions based on customer employee skills analysis. Our analysis is based on an employee's KPI's and plant specific applications.
- **RASCALS SOLUTIONS**
 - We provide customised solutions for small to medium manufacturing facilities inclusive of product and on-site support.
- **RASCALS SMART HOME**
 - Customized automation and audio visual solutions for the domestic and industrial sectors.



Our knowledge and experience of the industrial automation and control market offers some 35 years' experience and expertise.

Our solutions, which are customer application driven, cover the entire spectrum of industrial technology products.

Our expertise covers all aspects of industrial and domestic applications from concept to delivery.



OUR OFFER



We believe that “Best Practice” is born from knowledge of the customer requirement. That is why we focus on our customer’s needs with regard to their specific application.

Based on our understanding we provide customized solutions to meet the customer specific Key Performance Indicators for effective production.

Our offer covers the following fields within the industry technology environment.



OUR PARTNERS



Afrilek are superior automation and electrical solution providers, as well as providing service and support for production facilities. Afrilek brings a fresh and innovative approach, with the ability to provide a full turnkey solution. Their goal is to exceed the expectations of every client by offering outstanding customer service, increased flexibility, and greater value; thus, optimizing system functionality and improving operation efficiency. Their engineers are distinguished by their functional and technical expertise combined with their hands-on experience, thereby ensuring that their clients receive the most effective and professional service.

PRODUCT PARTNERS



F A C T O R Y I/O



RASCALS TRAINING

Rascals Training offers courses to meet service and maintenance requirements for industry specific plant level technology. We have a range of product courses but because we understand the skills requirements of industry we customize these courses for our customers.

The courses can be presented for a number of suppliers and include, Beckhoff, Siemens, Omron, Yokogawa and Rockwell products.

We have arranged the course platform to meet with industry standards as follows:

PLC – PROGRAMMABLE LOGIC CONTROLLER

A **PROGRAMMABLE LOGIC CONTROLLER (PLC)** is an industrial computer control system that continuously monitors the state of input devices and makes decisions based upon a custom program to control the state of output devices.



Rascals Training offer the following courses to meet learning requirements for effective productivity.

We are in a position to offer the courses below on a range of supplier PLC's including Siemens Step 7 Classic and TIA Portal, Delta, Beckhoff and Omron.

- INTRODUCTION TO PLC
- SERVICE & MAINTENANCE OF PLC's (Module One)
- SERVICE & MAINTENANCE OF PLC's (Module Two)
- PLC ADVANCED PROGRAMMING – (Module One)
- PLC ADVANCED PROGRAMMING – (Module Two)
- PLC TROUBLESHOOTING



INSTRUMENTATION



Instrumentation is all about **measurement** and **control**.

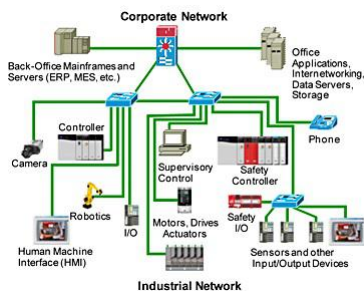
Any process plant has to continuously monitor and control four important parameters.

- PRESSURE
- FLOW
- TEMPERATURE
- LEVEL

Rascals are able to provide **INSTRUMENTATION COURSES** by resourcing the best available facilitators to present these courses either in our classroom or on-site.

INDUSTRIAL NETWORKS

For plants to become information driven, they need a strong foundation consisting of an industrial network architecture. It is crucial to send data to the right place, at the right time, and in the right context.



Rascals Training offers the following **INDUSTRIAL NETWORK** courses.

- INTRODUCTION TO INDUSTRIAL NETWORKING
- NETWORKING WITH PROFINET
- NETWORKING WITH PROFIBUS
- NETWORKING WITH ASI



HUMAN MACHINE INTERFACE – HMI

HMI is the user interface in a manufacturing or process control system. It provides a graphics-based visualization of an industrial control and monitoring system.



Rascals Training is able to offer a range of **HMI** courses as follows:

- INTRODUCTION TO OPERATOR PANELS
- OPERATOR PANELS ADVANCED
- FACTORYTALKVIEW **SE** PROGRAMMING
- FACTORYTALKVIEW **ME** PROGRAMMING

SCADA

SCADA is the acronym for **Supervisory Control And Data Acquisition**, a computer system for gathering and analyzing real time data. **SCADA systems** are used to monitor and control a plant or equipment in industries such as telecommunications, water and waste control, energy, oil and gas refining and transportation.



Rascals Training offers the following courses which cover the topic SCADA.

- INTRODUCTION TO SCADA
- SCADA CONTROL SYSTEM
- SCADA CONTROL SYSTEM ADVANCED



VARIABLE SPEED DRIVES

A **VARIABLE SPEED DRIVE** is a piece of equipment that regulates the **speed** and rotational force, or torque output, of an electric motor.



Rascals Training offers **VARIABLE SPEED DRIVES** courses on most of the supplier's products that are represented in South Africa. Our courses are designed to give delegates the skills required to apply the principles and practices of using Variable Speed Drives.

The courses that on offer cover the following topics:

- AC VARIABLE SPEED DRIVES ESSENTIALS.
- DANFOSS VARIABLE SPEED DRIVE SETUP.
- MASTER DRIVES VECTOR CONTROL MAINTENANCE.
- SINAMICS DRIVES MAINTENANCE.

DISTRIBUTED CONTROL SYSTEMS - DCS

A **DISTRIBUTED CONTROL SYSTEM** (DCS) is a computerized **control system** for a process or plant, in which autonomous controllers are **distributed** throughout the **system**, but there is central operator supervisory **control**.

Rascals Training offers the following courses to meet the Process Control maintenance requirements for a **DCS**.

DISTRIBUTED CONTROL SYSTEMS PROJECT COURSE (PCS7)
DISTRIBUTED CONTROL SYSTEMS MAINTENANCE COURSE (PCS7)
DISTRIBUTED CONTROL SYSTEMS OPERATORS COURSE (PCS7)



FACTORY I/O

REAL GAMES UNIPessoal LDA has certified Rascals Automation as the South African distributor of FACTORY I/O

WHAT IS FACTORY I/O?

FACTORY I/O is a 3D revolution in PLC Training.

It brings a 3D simulation of industrial applications into the classroom

With FACTORY I/O the PLC training environment is introduced to simulation of large scale industrial applications.

Learners have access to:

- More than 20 prior built scenes of typical industrial applications.
- A virtual factory using a palette of industrial parts, including sensors elevators, buttons, switches, stations and many others.
- Parts that include digital and analog I/O.

FACTORY I/O is available for the most common technologies inclusive of SoftPLC, OPC and Modbus.

F A C T O R Y I/O

NEXT-GEN PLC TRAINING



RASCALS SOLUTIONS

We provide customised **solutions** for small to medium manufacturing facilities inclusive of product and on-site support.

We have partnerships with a number of local product suppliers for industrial technology and pride ourselves with efficient delivery of customized solutions.

Rascals Solutions is the part of our company's customer relationship management ethos. We ensure quick and efficient interaction with our customers to ensure their immediate benefit.



RASCALS SMART HOME

RASCALS SMART HOME is the division of our company that is dedicated to the provision of technology for smart homes.

A **smart home** or **smart house** is a home that has integrated automation systems which will control lighting, climate, entertainment systems, and appliances. It may also include home security such as access control and alarm systems. When connected with the Internet, home devices are an important constituent of the Internet of Things.

A home automation system typically connects controlled devices to a central hub or "gateway". The user interface for control of the system uses either wall-mounted terminals, tablet or desktop computers, a mobile phone application, or a Web interface, that may also be accessible off-site through the Internet.

RASCALS SMART HOME is an accredited agent for ELAN South Africa.

We are in a position to provide customised automation solutions for the domestic and commercial environments.



COMPANY INFORMATION

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Vat Registration No: 4590263770

BEE Ref No: BEE/CS/0793/18 (Version – 01)
B-BBEE Score: 65 Points (Level Four B-BBEE Contributor)
Broad Based Procurement Recognition Level: 100%

MERSETA Accreditation: 17-QA/acc/1105/15



Branch Patron Member

