



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 training solutions for industry from concept to delivery.



RASCALS AUTOMATION was founded to provide professional accredited training solutions for industry applications.

OUR SERVICES INCLUDE:

- Training Needs Analysis based on employee KPI's and plant application.
- Training Courses designed to meet skills requirement.
- Training Consultancy – Advise on training needs out of the Rascals Automation scope of supply.

Our knowledge and experience of the industrial automation and control market we offer 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 productivity.



OUR OFFER



We believe that “Best Practice” is born from knowledge of the customer requirement. That is why we focus on skills development that is pertinent to the specific application.

Based on our understanding we customize training courses 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.



Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries. The Beckhoff “New Automation Technology” philosophy represents universal and open control and automation solutions that are used worldwide in a wide variety of different applications, ranging from CNC-controlled machine tools to intelligent building automation.



OUR COURSES

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, 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, Rockwell, 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



The ALLEN-BRADLEY PLC Courses are as follows:

- LOGIX5000/CONTROLLOGIX FUNDAMENTALS
- LOGIX5000/CONTROLLOGIX BASIC LADDER PROGRAMMING
- LOGIX5000/CONTROLLOGIX DEVELOPMENT TRAINING
- LOGIX5000/CONTROLLOGIX MAINTENANCE & FAULT FINDING
- LOGIX5000/CONTROLLOGIX FUNCTION BLOCK DIAGRAM (FBD)
- LOGIX5000/CONTROLLOGIX ST & SFC



INSTRUMENTATION



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

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

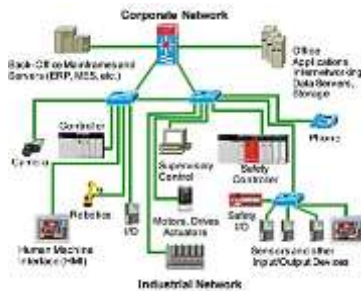
- PRESSURE
- FLOW
- TEMPERATURE
- LEVEL

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
- LOGIX5000/CONTROLLOGIX ETHERNET/IP

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)

ELECTRICAL TECHNOLOGY

ELECTRICAL TECHNOLOGY focuses on the understanding and application of electrical and electronic principles. There are three main areas of specialization, namely: Electrical, Electronics and Digital Systems.



Rascals Training is able to offer the following courses for this topic.

- ADVANCED ELECTRICAL SYSTEMS & INSTALLATIONS
- CABLE TESTING AND FAULT LOCATION
- TRANSFORMER TESTING
- OPERATING REGULATIONS FOR HIGH VOLTAGE SWITCHING
- MV SWITCHGEARS
- POWER SYSTEM HARMONICS
- ELECTRICAL FAULT ANALYSIS
- NEW ELECTRICAL REGULATIONS
- SWITCHBOARD ASSEMBLIES
- RELAY PROTECTION
- ELECTRICAL DRAWINGS
- SANS10142-1&2
- HAZOPS
- SANS 10142-2SANS 347
- SAFETY, EARTHING, BONDING, LIGHTNING
- FUNDAMENTALS AND IMPLEMENTATION OF POWER SYSTEM PROTECTION
- INSTALLATION RULES EXAM PREPARATION
- ELECTRICAL ISOLATION LOCK OUT



COMPANY INFORMATION

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B-BBEE Score: 65 Points (Level Four B-BBEE Contributor)
Broad Based Procurement Recognition Level: 100%

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

