



# COMPANY PROFILE



# OUR VALUE PROPOSITION

We develop the competence and capability of Control and Instrumentation Professionals, by providing training solutions that are customised to plant specific applications.

Our strength is based on our years of experience in the Industry and our ability to research and apply the latest developments for the relevant technology.



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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.



**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 customers 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



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 the industry we customize these courses for our customers.

The courses can be presented for several 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**.

- INTRODUCTION TO PLC
- SERVICE & MAINTENANCE OF PLC's (Module One)
- SERVICE & MAINTENANCE OF PLC's (Module Two)
- PLC ADVANCED PROGRAMMING – (Module One) **CPD POINTS**
- PLC ADVANCED PROGRAMMING – (Module Two) **CPD POINTS**
- 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 which are **SAIMC VALIDATED** with CPD Points.

- INTRODUCTION TO INDUSTRIAL NETWORKING  
**CPD POINTS – 3**  
**SAIMC\_CPD\_L\_614**
- NETWORKING WITH PROFINET  
**CPD POINT - 3**  
**SAIMC\_CPD\_L\_615**
- NETWORKING WITH PROFIBUS  
**CPD POINTS - 3**  
**SAIMC\_CPD\_L\_613**



## 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

## SCADA

SCADA is the acronym for **Supervisory Control And Data Acquisition**, a computer system for gathering and analysing 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 are 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



# Microsoft Office Certified Courses

Rascals Automation Training has entered into an agreement with Master Skills to provide a CERTIPORT Centre at which evaluation of Microsoft skills can be offered.

We also have the services of an Certified Microsoft Trainer for the following products:

Course Code	Course Name	Duration
<b>RCL-OffBasic</b>	MS Office Basic	3 Days
<b>RCL-WordIntr</b>	MS Word Introduction	1 Day
<b>RCL-WordP1</b>	MS Word 2013/16 Part 1	2 Days
<b>RCL-WordP2</b>	MS Word 2013/16 Part 2	3 Days
<b>RCL-ExcelIntr</b>	MS Excel Introduction	1 Day
<b>RCL-ExcelP1</b>	MS Excel 2013/16 Part 1	2 Days
<b>RCL-ExcelP2</b>	MS Excel 2013/16 Part 2	3 Days
<b>RCL-PP P1</b>	MS PowerPoint 2013/16 Part 1	2 Days
<b>RCL-PP P2</b>	MS PowerPoint 2013/16 Part 2	2 Days
<b>RCL-OutlookP1</b>	MS Outlook 2013/16 Part 1	1 Day
<b>RCL-OutlookP2</b>	MS Outlook 2013/16 Part 2	2 Days
<b>RCL-ProjP1</b>	MS Project 2013/16 Part 1	2 Days
<b>RCL-ProjP2</b>	MS Project 2013/16 Part 2	3 Days

We have a Microsoft Certified Educator available for all the above Microsoft courses.

Please contact us for additional information in this regard.



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



# COMPANY INFORMATION

**Web Site:** [www.rascalsautomation.co.za](http://www.rascalsautomation.co.za)

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Brackendowns  
Alberton

**Company Registration:** 2015/142527/07

**Vat Registration No:** 4590263770

**BEE Ref No:** BEE/CS/0793/18 (Version – 01)

**B-BBEE Score:** Level Two B-BBEE Contributor

**Broad Based**

**Procurement**

**Recognition Level:** 125%



**Branch Patron Member**



# COMPANY ORGANOGRAM

MANAGING  
DIRECTOR

DES BURROWS

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