



SMART AUTOMATION & CONTROL TECHNOLOGY BY RCT

GET THE MOST OUT OF
YOUR WORKFORCE!



PRODUCT
SKILLS
TRAINING

rct-global.com

PRODUCT SKILLS TRAINING

RCT has a long history of providing high-quality training to get the most out of RCT's Line-of-Sight, Teleremote and Guidance Automation solutions. These systems allow mine staff to remotely operate machinery at a safe distance, away from hazardous mine environments.

These training courses are tailored to suit both operators and maintenance personnel and are recognised by the industry for its high standards and excellence.

Previously, training has only been available to existing RCT corporate customers.

Now, for the first time, machine operators, auto electricians and mechanical fitters can access these courses to significantly enhance their chances of successfully applying for positions in the mining industry. RCT's systems are used in more than 90 per cent of Australian mines as well as many overseas sites including, Asia, Africa, Russia, Canada, South America and the USA.

RCT's standardised approach to componentry and operating procedures will ensure that training qualifications are valid worldwide. Participants will be trained by a qualified and experienced RCT instructor, using comprehensive training manuals and teaching aids. The hands-on exercises will be completed using equipment identical to that used in the mines. The courses are conducted at a variety of RCT branch locations and on customer mine sites.

Training can be booked through the RCT website or by contacting your local RCT branch or a sales representative.

Many mining job prerequisites include RCT certification; ensure you are job ready by completing an RCT training course at your nearest branch.

You will enjoy:

- Up-to-date documentation
- Best practice techniques and procedures
- Small class sizes allowing for individual attention
- Relaxed classroom atmosphere

Major benefits:

- Industry recognised training
- Exposure to the latest technology and revisions
- Australia-wide acceptance of RCT Certificate
- Confidence in tackling complex problems
- Improved chances in securing a highly competitive position
- More enjoyable working environment – knowledge is power!

Who should attend?

- Machine Operators
- Electricians
- Auto Electricians
- Mechanical Fitters



COURSES ON OFFER

All courses are broken into allocated day(s) for either onsite or in the classroom. Courses can be run standalone or consecutively.

MACHINE OPERATOR

ControlMaster® Operator Training

The content includes:

Line-of-Sight components including transmitter, receiver and interface, safe operating procedures, standard system features, disparity checking, pre-start checks, Teleremote machine components including cameras, Teleremote Transmitters and aerials, Teleremote station components, Teleremote and Guidance safe operating procedures, video system troubleshooting, laser barrier operation and, the latest digital components and their operation.

It is divided into these modules:

Fundamentals of Remote & Teleremote Control - Operator

- RCT Analogue Components¹
- RCT Digital Components¹
- RCT Analogue Operation
- RCT Digital Operation

Remote, Teleremote & Guidance Control – Operator

- Topics in *Fundamentals of Remote & Teleremote Control – Operator* (RCT22001)
- Guidance – Operator
- Guidance Digital – Operator

Guidance Expand – Operator

- RCT Digital Components¹
- RCT Digital Operation
- Guidance Digital – Operator

COMMUNICATIONS MAINTENANCE

ControlMaster® Communications Systems Diagnostics & Maintenance Training

The content includes:

Installation and maintenance of Teleremote communications systems including analogue and digital both underground and on the surface.

It is divided into these modules:

Analogue Communications – Underground Maintenance

- Communications – Analogue
- Communications – RCT Bridge

Digital Communications – Surface & Underground Maintenance

- Communications – Digital (Underground)
- Communications – Digital (Surface)

MACHINE MAINTENANCE

ControlMaster® Machine & System Maintenance Training

This course is purely designed for maintenance personnel but also includes Fundamentals of Remote Control operator training.

The content includes:

Safety procedures for testing, transmitter and receiver specifications and troubleshooting, PWM testing and calibration, interface testing and maintenance, breakdown test procedures, remote servicing recommendations, Teleremote transmitter operation and troubleshooting, Guidance system maintenance and troubleshooting, Teleremote cabin maintenance and servicing, laser barrier maintenance and troubleshooting.

It is divided into these modules:

Remote & Teleremote – Maintenance

- Topics in *Fundamentals of Remote & Teleremote Control – Operator* (RCT22001)
- RCT Analogue Equipment² – Remote
- RCT Analogue Equipment² – Teleremote
- RCT Digital Equipment²

Remote, Teleremote & Guidance – Maintenance

- Topics in *Remote & Teleremote – Maintenance* (RCT22003)
- Guidance – Operator
- Guidance Digital – Operator
- Guidance – Maintenance
- Guidance Digital – Maintenance

Advanced Guidance – Maintenance

- Guidance – Maintenance
- Guidance Digital – Maintenance
- Advanced Guidance – Calibration

Guidance Expand – Maintenance

- RCT Digital Equipment² – Maintenance
- Guidance Digital – Maintenance

ADVANCED MAINTENANCE

Advanced Repair & Servicing Procedures - Part 1 & 2

This course covers advanced programming, testing and servicing. It involves opening the various components to replace and service internal parts.

*Only offered on a selective basis to specific customers.

¹ Components: Hardware overview (basics)

² Equipment: Hardware maintenance (detailed)

COURSES IN DETAIL

OPERATORS

Fundamentals of Remote & Teleremote Control – Operator

RCT22001 | Duration : 1 Day

This course is delivered in 2 modules. The first module covers the analogue and digital components used in Remote control mining. The second module covers the component's operational procedures.

This course is mandatory for Remote/ Teleremote control operators.

Modules in detail:

- RCT Analogue Components¹
- RCT Digital Components¹
- RCT Analogue Operation
- RCT Digital Operation

Remote, Teleremote & Guidance Control – Operator

RCT22002 | Duration : 2 Days

This course is delivered over 2 days.

Day 1 covers the *Fundamentals of Remote & Teleremote Control* (RCT22001).

Day 2 covers the foundations required for an understanding of what is required for operation via Guidance Control. Onsite courses will include an underground practical session on a Guidance machine where possible. This course is delivered in 2 modules where the first module covers the basics of Guidance and the second module looks at the more advanced Automation Centre and Guidance Digital.

Modules in detail:

- Day 1: *Fundamentals of Remote & Teleremote Control* (RCT22001)
- Day 2: Guidance – Operator
Guidance Digital – Operator

Guidance Expand – Operator

RCT22010 | Duration : 1 Day

This course is for operators who have already completed all our existing analogue remote operator trainings but want to upgrade to RCT digital products including the Automation Centre.

Modules in detail:

- RCT Digital Components¹
- RCT Digital Operation
- Guidance Digital – Operator

¹ Components: Hardware overview (basics)

² Equipment: Hardware maintenance (detailed)

MACHINE MAINTENANCE

Remote & Teleremote – Maintenance

RCT22003 | Duration : 2 Days

This course is delivered in 4 modules over 2 days.

Day 1 covers the *Fundamentals of Remote & Teleremote Control* (RCT22001) and is basically operator training for maintenance personnel.

Day 2 is divided into 2 modules and is maintenance training for maintenance personnel. The first module covers all the equipment used for Remote control operations and the second module covers all the equipment used for Teleremote operation.

This course is mandatory learning for mine site maintenance personnel who will be required to maintain the RCT equipment.

Modules in detail:

- Day 1: *Fundamentals of Remote & Teleremote Control* (RCT22001)
- Day 2: RCT Analogue Equipment² – Remote
RCT Analogue Equipment² – Teleremote
RCT Digital Equipment²

Remote, Teleremote & Guidance – Maintenance

RCT22004 | Duration : 3 Days

This course is delivered over 3 days.

Day 1 covers the *Fundamentals of Remote & Teleremote Control* (RCT22001).

Day 2 is divided into 3 modules and is maintenance training for maintenance personnel covering all the equipment² for both Remote and Teleremote operations.

Day 3 covers the Guidance equipment maintenance training including Guidance Digital equipment.

This course is mandatory learning for mine site maintenance personnel who will be required to maintain RCT products and are using Guidance operations.

***** If there are both operators and maintenance personnel attending this training course, then we will cover the operator components within 2 days. The operators will be able to leave and the course will continue for the maintenance personnel.**

Modules in detail:

- Day 1 and 2: *Remote & Teleremote – Maintenance* (RCT22003)
- Day 3: Guidance – Operator
Guidance Digital – Operator
Guidance – Maintenance
Guidance Digital – Maintenance

Advanced Guidance – Maintenance

RCT22005 | Duration : 1 Day

This course is mandatory training for mine site maintenance personnel who will be required to maintain and/or make adjustments to the RCT Guidance equipment.

This course is only delivered at the customer's site where a machine must be made available to enable all adjustments to be carried out – including all the laser and machine adjustments – to allow the machine to operate on Guidance.

This course is conducted over 1 day and includes 2 modules where the first module covers the basic Guidance and Guidance Digital maintenance and the second module covers the advanced Guidance maintenance including all the calibrations.

Modules in detail:

- Guidance – Maintenance
- Guidance Digital – Maintenance
- Advanced Guidance – Calibration

Guidance Expand – Maintenance

RCT22011 | Duration : 1 Day

This course is for maintenance personnel who have already completed all our existing analogue machine maintenance trainings but want to upgrade to RCT digital products including the Automation Centre.

This course is mandatory for maintenance personnel who will be maintaining the Automation Centre equipment and other digital products. It will also include the fundamentals that are taught in the operator's course.

Modules in detail:

- RCT Digital Equipment² – Maintenance
- Guidance Digital – Maintenance

COMMUNICATIONS MAINTENANCE

Analogue Communications – Underground Maintenance

RCT22006 | Duration : 1 Day

This is mandatory training for mine site maintenance personnel who will be required to carry out testing, maintenance and servicing of the analogue communications system.

After completion of this course, trainees will be able to design a typical analogue communications system to provide the correct amount of signal strength being fed back to the Teleremote operator's station.

This course will cover both the existing analogue system as well as the RCT Bridge system.

Modules in detail:

- Communications – Analogue
- Communications – RCT Bridge

Digital Communications – Surface & Underground Maintenance

RCT22009 | Duration : 1 Day

This is mandatory training for mine site maintenance personnel who will be required to carry out testing, maintenance and servicing of digital communications system.

After completion of this course, trainees will be able to create a basic design, and understand and maintain a typical digital communications system both underground and on the surface.

Modules in detail:

- Communications – Digital (Underground)
- Communications – Digital (Surface)



COURSES IN DETAIL (CON'T)

ADVANCED MAINTENANCE

*Only offered on a selective basis to specific customers.

Part 1

Advanced Repair & Servicing Procedures (Operation, Repair & Safe Testing Procedures)

RCT22007 | Duration : 2 Days

Part 1 and Part 2 training are interrelated courses. This course is only for people who have completed the pre-requisite courses and are qualified technicians. In order to undertake the course, technicians must have suitable electrical or electronic qualifications and experience. Both Part 1 and Part 2 must be completed in order to graduate from the course.

Note: Companies within Australia are recommended to return and/or contact their closest RCT office to have their ControlMaster® equipment tested and repaired.

Course Pre-Requisite

- Must be at least 18 years of age and inducted for site and underground site operations (site-specific).
- Completed all RCT courses;
 - *Fundamentals of Remote & Teleremote Control – Operator* (RCT22001)
 - *Remote, Teleremote & Guidance Control – Operator* (RCT22002)
 - *Remote & Teleremote – Maintenance* (RCT22003)
 - *Remote, Teleremote & Guidance – Maintenance* (RCT22004)
 - *Advanced Guidance – Maintenance* (RCT22005)
 - *Analogue Communications – Underground Maintenance* (RCT22006)

Part 2

Advanced Repair & Servicing Procedures (Internal Servicing Procedures)

RCT22008 | Duration : 2 Days


Part 1 and Part 2 training are interrelated courses. This course is only for people who have completed the pre-requisite courses and are qualified technicians. In order to undertake the course, technicians must have suitable electrical or electronic qualifications and experience. Both Part 1 and Part 2 must be completed in order to graduate from the course.

Note: Companies within Australia are recommended to return and/or contact their closest RCT office to have their ControlMaster® equipment tested and repaired.

Course Pre-Requisite

- Must be at least 18 years of age and inducted for site and underground site operations (site-specific).
- Completed all RCT courses;
 - *Fundamentals of Remote & Teleremote Control – Operator* (RCT22001)
 - *Remote, Teleremote & Guidance Control – Operator* (RCT22002)
 - *Remote & Teleremote – Maintenance* (RCT22003)
 - *Remote, Teleremote & Guidance – Maintenance* (RCT22004)
 - *Advanced Guidance – Maintenance* (RCT22005)
 - *Analogue Communications – Underground Maintenance* (RCT22006)
 - *Advanced Repair & Servicing Procedures – Part 1 (Operation, Repair & Safe Testing Procedures)* (RCT22007)





“The training has empowered staff, making it possible to avoid extended downtime and save thousands of dollars in the costs associated with outsourcing maintenance overseas.”

- Auto Electrician Supervisor, Phillip Bell
(OK Tedi Mining Limited)



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