

LISTEN.  
THINK.  
SOLVE.<sup>SM</sup>



## TRAINING SCHEDULE

OCTOBER 2006 – SEPTEMBER 2007

**Rockwell**  
**Automation**

ALLEN-BRADLEY • ROCKWELL SOFTWARE

# IS YOUR AIM TO BE WORLD CLASS?

In order to reach world-class performance you need to achieve peak performance from both your processes and people, and have them working efficiently.

At Rockwell Automation our MISSION is to help our customers provide quality products faster and at lower cost.

Training is central to achieving this MISSION because:

- **Training empowers your staff to maximise the benefits of your automation investment by utilising all the installed capabilities.**
- **Competent technicians minimise costly downtime through experience in fault finding.**

At Rockwell Automation, we recognise the need for “human asset enhancement” and are committed to providing quality products and services to meet this need.



**Organisational change is at the forefront for companies who want to maximise the contribution from all members of their organisation. We provide a comprehensive offering in Change Management.**

Rockwell Automation is a prominent training provider in Ireland, successfully providing customers with new skills and tools to optimise the use of their automation investment and make better informed decisions on future strategy. All Rockwell Automation training instructors are industry experienced engineers with current "hands-on" application experience, whose technical skills are annually assessed and updated.

Our Training and Performance Services organisation offers a wide range of first class industrial automation training products, services and courses to meet your changing needs.

In addition, we also offer a range of maintenance training courses on integrated software and hardware solutions for Machine Condition Monitoring, protection and balancing through our integration with Entek Training Services.

# NEW IN THIS SCHEDULE

## Training Courses

Our on-going programme covers training in the following areas:

- Programmable Logic Controllers
- Process Control
- Operator Interface
- Communications & Networking
- Industrial Software
- Motion Control
- Variable Speed AC/DC Drives
- Bizware Software

The training courses shown are held in our purpose-built training centre in Dublin. On request, they can be held on site at your facility. With our tailored training programme, courses can be configured to cover the topics relevant to you.

## New in this Schedule

Safety of Machinery & the Design of Functional Safety Systems Workshop

– See page 7



## New Course Offerings

– See page 7

- Advanced Programming Languages in RSLogix 5000 Software
- Drives Workshop

**Obtain monthly updates on new courses, additional courses and special offerings by visiting:**

**[www.rockwellautomation.ie](http://www.rockwellautomation.ie)**

**and clicking on Training.**

# TRAINING NEEDS ANALYSIS

## Why conduct a TNA?

The objective of the TNA is to accurately establish the existing competency of the individual, based on the individual's self-assessment (rather than by an external training facilitator), before commitment is made to training. This ensures that the individual receives the correct training. If the individual does not have the necessary prerequisite skills the training can be a wasted investment. If the individual's existing skill level is too high, the training effort (investment) will be spent at a level too low to maximise the benefits. Proper planning of training, based on the TNA, optimises the benefits to the company and the individual.



## What is the outcome of the TNA?

An executive summary of all delegates who participated in the TNA is provided, followed by confidential feedback on each delegate. Graphical results are provided for each key area by “knowledge, skill and experience”, rating each against a standard. A comparative summary graph of all delegates (again by “knowledge, skill and experience”) is also provided. Finally, a detailed training recommendation is provided to bring each delegate to the competency level required by the company to support the installed base.

Price €200 per person, plus assessor's expenses (Minimum cost €1200 for up to 6 persons, plus assessor's expenses).

## Course Assessment Tools

Rockwell Automation Training and Performance Services offer a suite of Assessment Tools which maximise the benefits of classroom training. A Pre-course Skills Assessment, a Delegate (performance) Log and a Post Course Test (also with a BTEC option) allow the trainer to focus on need areas and provide you with clear visibility into the actual skill levels of the delegates on the training course. Historically, training delegates check course prerequisites, attend a training course and receive a certificate that confirms they've “attended” the course. Your aim is to have “competent” technicians to support your installed technologies. Recognising this, we've developed Course Assessment Tools to maximise the benefits of training for you.

# AFTERCARE TOOLS

Attending a training course is only part of the learning process. Aftercare Tools reinforce the skills acquired on a classroom training course after delegates return to the workplace. Our Aftercare Tools can be tailored to meet your company's requirements.

Aftercare options include:

- Post Training Assessment
- Job Aids
- RSTrainer2000 Refresher Training Software
- Coaching days

Aftercare options can be arranged independently or better still, integrated within your Asset Management contract or Flexible Company Training Pass.

## **Computer Based Post-Training Assessment**

This assessment confirms the skill competency of your employees. Our Post Training Assessment (PTA) will allow industrial production and maintenance staff to test their knowledge of automation systems. PTA assesses an individual's understanding and competency based on experience and knowledge retained from previous training courses. The results of the assessment can be used to identify skill gaps that need to be filled by further training. The computer based assessment is supplied on a CD. Several assessment levels are available



from introductory through to advanced levels. It uses structured multiple-choice questions, as well as graphics and diagrams mimicking the controls or display screens of employers' site specific products. The aim is to assess an individual's skill level on the installed base as a result of prior training. Answers to the assessment are returned to Rockwell Automation encoded on a floppy disk and a report is compiled recommending future training.

Price €120 per person  
(minimum cost €1440 for up to 12 persons).

**For more information, please  
call the training centre on  
0044 121 355 6005**

# TRAINING COURSES

## **On-Site Courses, Tailored Courses**

On-site courses at your facility are easily catered for. Choose any of our standard courses or talk to our administrators and trainers about tailoring the course content to suit your exact needs. Selecting a suitable room to hold the course is important because easy access is required for the delivery of equipment.

If tailored training, and/or the need for the course to be company specific is your requirement, please view the prices for organising an unscheduled course at the training centre, as well as the on-site cost. It can be a significantly lower cost.



# JOB AIDS

Originally developed for use on Rockwell Automation training courses, Job Aids are available separately and provide critical information at your fingertips in an easy-to-use, pocket-sized format.

## **Troubleshooting Guides**

Troubleshooting Guides are designed to help you reduce downtime by quickly identifying and solving common hardware problems.

## **Procedure Guides**

Procedure Guides provide you with step-by-step instructions and best practices to systematically and efficiently complete job-related tasks.

## **Reference Guides**

Reference Guides include excerpts from the most frequently used technical documentation in one compact guide. They eliminate the need to search through numerous manuals.

**For more information, please  
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0044 121 355 6005**

# NEW COURSE OFFERINGS

## **Safety of Machinery & the Design of Functional Safety Systems Workshop**

For engineers and managers of manufacturing industries producing machinery & electrical equipment for industrial markets for sale and use within the European Union. For engineers and managers of companies importing machinery & electrical equipment for industrial markets from outside the European Union for sale and use within the European Union. For engineers and managers of industries using, purchasing and acquiring machinery & electrical equipment for use within the European Union.

## **Advanced Programming Languages in RSLogix 5000 Software**

For engineers who are looking to gain knowledge in the full range of advanced Logix 5000 programming languages covering Sequential Function Chart, Function Block & Structured Text.

## **Drives Workshop**

Tailored workshop on drive applications for engineers & technicians responsible for Maintaining drive systems.

## **Rockwell Automation Web-Based e-Learning**

Rockwell Automation now offers an extensive range of Web-Based training options.

### **Web-Based Training**

Self-paced training programmes are available as Product Specific, Industrial Basics or Customer Specific Packages. Training is offered in packs of access e-passes and is controlled by the Toolbox Learning Management System (LMS). Each e-pass is for one unique course and is registered for one delegate – activation valid for one year.

### **Product Specific:**

e-learning related to the specifics of Rockwell Automation equipment and software: RSVIEW Machine Edition, RSLogix 5000 Software, etc

### **Industrial Basics:**

e-learning related to general industrial categories: Hydraulics, Pneumatics, Mechanical and Electrical training.

### **Toolbox Learning Management System Capabilities:**

- Manages a large number of courses
- Tracks user activity and progress
- Creates detailed reports for administrators
- The LMS is provided at no additional charge

**For more information, please call the training centre on 0044 121 355 6005**

# AUTOMATION CUSTOMER TRAINING

OCTOBER 2006- MARCH 2007

Course Title	Length	Class Days	Fee Per delegate ex. VAT	Course Code	
Logix-5000	Fundamentals of Programmable Controller Systems using RSLogix5000	2	€790	IRL1040	
	Using Basic ladder logic Instructions in RSLogix 5000	3	On Request	IRL1044	
	ControlLogix Maintenance using RSLogix5000 Software Part 1 **	4	Mon - Thurs	€1,580.00	IRL1043
	ControlLogix Maintenance using RSLogix5000 Software Part 2 **	3	Mon - Wed	€1,185.00	IRL1243
	ControlLogix Maintenance Accelerated using RSLogix 5000 Software **	5	Mon - Fri	€2,375.00	IRL1343
	Developing Logix5000 Systems using RSLogix5000 Software	4	Mon - Thurs	€1,580.00	IRL1041
	Introduction to Function Block Diagrams using RSLogix5000	2	On Request	€990.00	IRL1046
	ControlLogix Motion Control - Programming using RSLogix5000	3	Mon - Wed	€1,425.00	IRL4021
	ControlLogix Motion Control - Maintenance using RSLogix5000	2	Mon - Tues	€790.00	IRL4023
ControlLogix Motion Control - Advanced Programming - RSLogix 5000	2	Thurs - Fri	€950.00	IRL4025	
S/ OEM SLC-500	Fundamentals of Programmable Controller Systems using RSLogix 5 or RSLogix500 software	2	Mon - Tues	€790.00	IRL1000
	SLC-500 Maintenance Part1* with RSLogix500 software**	3	Mon - Wed	€1,185.00	IRL1003
	SLC-500 Maintenance Part 2* with RSLogix500 software	2	Thur - Fri	€790.00	IRL1203
	SLC 500 Programming using RSLogix500 software **	4	Mon - Thurs	€1,580.00	IRL1004
	SLC 500 Refresher with RSLogix500 software	2	On Request	€870.00	IRL1007
PLC-5	PLC-5/SLC-500 Combined Maintenance with RSLogix 5/500 software	5	On Request	€1,975.00	IRL1103
	RSLogix 5/500 Software upgrade from 6200, APS, AI	2	On Request	€790.00	IRL1100
	PLC-5 Part 1 using RSLogix5 software **	4	On Request	€1,790.00	IRL1021
	PLC-5 Part 2 using RSLogix5 **	4	On Request	€1,790.00	IRL1221
	PLC-5 Accelerated using RSLogix5 software **	5	Mon - Fri	€2,250.00	IRL1024
HMI	PanelView 550/600/900/1000/1400 Maintenance	1	Mon	€395.00	IRL2003
	PanelView 550/600/900/1000/1400 Programming	2	Tues - Wed	€790.00	IRL2001
	Developing RSView Machine Edition Projects for PanelView Plus	3	On Request	€1,350.00	IRL2046
	RSView Machine Edition Maintenance for PanelView Plus	1	Mon	€455.00	IRL2053
Rockwell Software	Getting Started with RSView32 Software	1	On Request	€425.00	IRL2040
	RSView32 Programming	5	On Request	€2,250.00	IRL2041
	RSView32 Accelerated	3	On Request	€1,350.00	IRL2044
	Using RSView32 Extensions	2	On request	€990.00	IRL2042
	RSView32's Visual Basic for Applications	4	On request	€1,800.00	IRL2045
	RSView SE	5	On Request	€2,250.00	IRL2047
	Maintaining RSView32 Projects	4	On Request	€1,800.00	IRL2049
	Transitioning RSView 32 to RSView SE	3	On Request	€1,425.00	IRL2048
	RSTestStand Software	2	On Request	€950.00	IRL7509
	Windows Network Administration for RSView SE	2	On Request	€1,025.00	IRL3062
Comms	Ethernet Engineering	1	On Request	€450.00	IRL3061
	Designing & Configuring a DeviceNet Network	2	Mon - Tue	€890.00	IRL3021
	ControlNet Engineering for PLC 5	2	Wed - Thur	€890.00	IRL3041
Motion and Drives	GML Programming (1394 Compact, S Class, Turbo)	5	On Request	€2,250.00	IRL4001
	GML Maintenance (1394 Compact, S Class, Turbo)	3	On Request	€1,350.00	IRL4003
	GML Turbo Communications	2	On Request	€890.00	IRL4005
	Drive Workshop	1	On Request	€425.00	IRL5005
	Set-up and Training Ultra Drives	1	On request	€425.00	IRL4041
Bizware	MS SQL	2	On Request	€990.00	IRL7019
	RS SQL	3	On Request	€1,485.00	IRL7011
	Plantmetrics/Historian	4	On Request	€1,980.00	IRL7031
	Scheduler Engineering	3	On Request	€1,485.00	IRL7041
	Scheduler Operator	1	On Request	€495.00	IRL7040

\*SLC-500 using APS & AI software and PLC 5 using AI & 6200 software are available as custom courses

\*\* PLC-5, SLC 500 and ControlLogix courses are BTEC accredited. Optional Registration, fee €85 intermediate, €110 advanced per course



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# UNSCHEDULED TRAINING CENTRE COURSES

Rockwell Automation Training and Performance Services will conduct any standard or tailored training course on a date of your choice at our Dublin Training Centre. The cost of a standard course is €1650 per day, for up to 6 delegates.

The cost for a tailored course is €1750 per day, for up to 6 delegates. Additional delegates can be accommodated at a cost of €200 (standard) or €250 (tailored) per person, per day. The maximum number of delegates will vary depending on the course content. Dates subject to availability.



# ON-SITE COURSES



Rockwell Automation Training and Performance Services will conduct any standard or tailored training course at a venue of your choice, typically on site, at a date of your choice at a cost of €1750 plus expenses (standard) or €1850 plus expenses (tailored) per day, for up to 6 delegates.

Additional delegates can be accommodated at a cost of €200 (standard) or €250 (tailored) per person, per day. The maximum number of delegates will vary depending on the course content. Dates subject to availability.

# CHOOSING THE RIGHT VENUE

Cost is important, particularly if you need to train a number of your staff. Your lowest cost option to train 6 or more team members is to arrange a non-scheduled standard course at our Dublin Training Centre.

The cost is 21% less than standard course rates, and 26% less than on-site standard course (taking average expenses into account).



## Training Courses - Terms and Conditions

Courses cancelled within 1 week of the course start date - 100% of price.

Standard courses rescheduled within 5 weeks of the course start date will be subject to an administration charge of €75.

Rockwell Automation reserve the right to cancel courses if insufficient bookings have been received.

Delegates will be notified and offered an alternative, or the course fee will be refunded in full. If a course has to be cancelled at the last moment, the fees will be refunded in total but Rockwell Automation cannot be held liable for any other expenses incurred by delegates or their organisations due to cancellation.

All prices are excluding VAT, which will be charged at the current rate.

# TRAINING PASSES

## Individual Training Passes

Individual training passes are packs of days that entitle one individual to attend any scheduled course at our facilities in Dublin within a 12 month period from the date of purchase.

Type	Duration	Price
Bronze Pass	12 Days	€3775
Silver Pass	18 Days	€5275
Gold Pass	Unlimited	€9100

## Company Training Passes

Company Training Passes are packs of days that entitle anybody within the organisation to attend any scheduled course at our facilities in Dublin within a 12 month period from the date of purchase.

Type	Duration	Price
Pearl Pass	25 Days	€7850
Ruby Pass	50 Days	€14775
Emerald Pass	100 Days	€27775



**For more information, please contact the training centre on 00 121 355 6005**

## Flexible Company Training Pass

For larger training requirements, we can tailor the Company Training Pass to offer maximum flexibility, incorporate additional services, deliver across multiple sites and provide a budgeted approach without a top limit on the training to be provided.

# AFTERCARE

## Computer Based Training – RSTrainer2000

Designed with student objectives in mind, RSTrainer2000 Self-Paced Training programmes provide multimedia lessons and interactive practice exercises. Designed with student objectives in mind RSTrainer2000 refresher software can cater for multiple users (1 user at a time per license) with Student Manager tracking the “who, when & what” of refresher training completed on RSTrainer 2000. Features include animated graphics, professional audio and content written by Rockwell Training and Technical Support Specialists.



It's excellent refresher training for intermittent RSLogix users and quickly brings those familiar with CLX-5000, SLC-500 and PLC-5 up to speed with this Windows software package.

Type	Part No.	UK List Price	When purchased with a Training Course*
RSTrainer2000 for RSLogix5	9393-RSTLX5	€515	€386
RSTrainer2000 for RSLogix500	9393-RSTLX500	€515	€386
RSTrainer2000 for RSLogix5000	9393-RSTLX5K	€715	€608
RSTrainer2000 Student Manager	9393-RSTSMGR	€725	€545

\*RSTrainer2000 is available at the reduced rates shown above when purchased with any Rockwell Automation Training Course. Training Passes & CBT

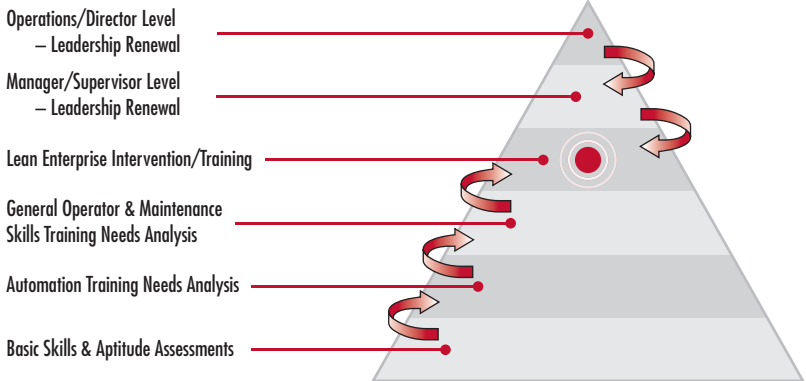
# CHANGE MANAGEMENT

Rockwell Automation can assist you in delivering change to your organisation with intervention, training, mentoring and consulting at all levels in the organisation.

Leadership behavioural change is needed to support change and Lean Enterprise initiatives. This can be delivered at the Operations/Director level as well as at the Manager/Supervisor level. True organisational change involves everyone in the business.



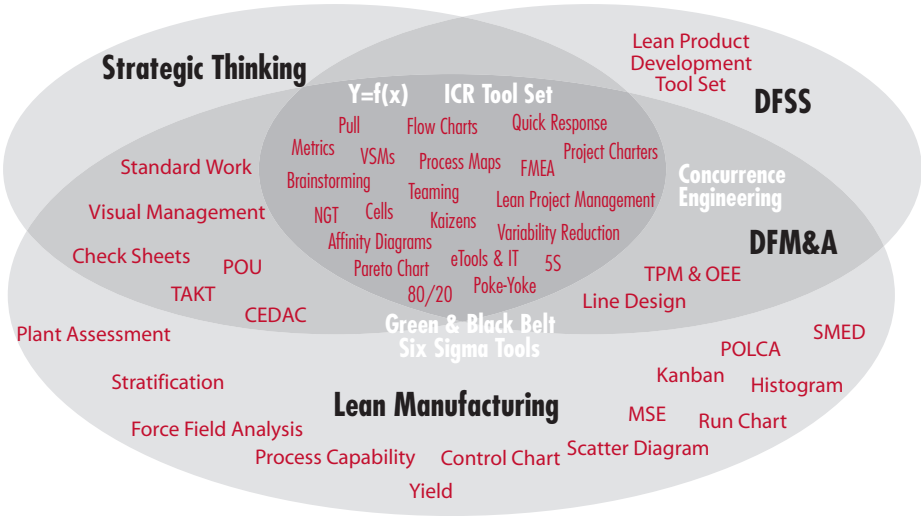
## Change Management Intervention Levels



The core of Change Management – Lean Enterprise is a consultative approach and involves a selection of tools from the options below, aimed at eliminating waste and improving Operational Equipment Effectiveness (OEE).

Business Process

Product Development



Lean Enterprise intervention starts with an 11 lean Key Assessment to develop a roadmap for change.

### 11 Lean Key Assessment

- Formal 5S
- Visual Control
- Poka Yoke
- Total Productive Maintenance (TPM)
- Worker Flexibility
- Continuous Improvement Business Practices

- Balanced Production
- Production Scheduling
- Change-Over
- Standard Work
- Focused Factory

**For more information, please call the training centre on 0044 121 355 6005**

# CERTIFICATION

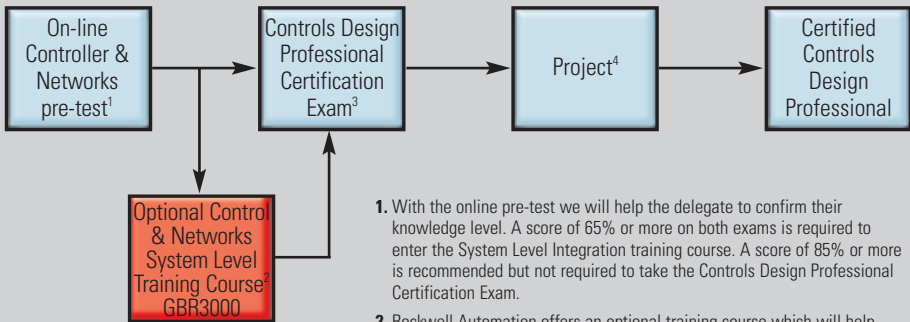
## Become a 'Certified' Rockwell Automation Engineer

Rockwell Automation now offers Certification in the areas of "Automation". Candidates will take a computer based competency assessment plus complete an application project. Certified Engineers are eligible for special discounts on scheduled training courses, Job Aids and RSTrainer software for the period of their accreditation validity. See the certification process diagram below.

Test your skill level by taking our FREE web based tests in Controllers & Networks on the Rockwell Automation global website:

[www.rockwellautomation.ie](http://www.rockwellautomation.ie)

To assist you in preparing for the on-line test, a Controls & Networks System Level Integration Training course is available.



1. With the online pre-test we will help the delegate to confirm their knowledge level. A score of 65% or more on both exams is required to enter the System Level Integration training course. A score of 85% or more is recommended but not required to take the Controls Design Professional Certification Exam.
2. Rockwell Automation offers an optional training course which will help delegates to achieve our minimum recommended knowledge level.
3. 4 hour computer based multiple choice exam which is taken at a local Rockwell Automation Facility.
4. 4 hour application project requiring delegates to understand the problem, develop the solution, including configuring and programming the hardware. The exam is held at a local Rockwell Automation Facility.

**For more information, please call the training centre on  
0044 121 355 6005**

## ROCKWELL AUTOMATION® SERVICES & SUPPORT

An integrated, collaborative maintenance strategy that includes the right combination of Reactive, Preventive and Predictive methods and leverages vendor support resources (such as those from Rockwell Automation shown below) can help you reduce downtime, operate equipment to specifications and expedite performance improvement changes.

<p><b>Eliminate Unplanned Downtime Events</b></p>	<p><b>PREDICT</b></p>	<p><b>Service Assessments</b> Baseline Evaluations of Plant Floor Technical Skills, Procedures and Equipment</p> <p><b>Integrated Condition Monitoring</b> Predictive Maintenance Products &amp; Services for Rotating Equipment</p> <p><b>MRO Process Management</b> Rockwell Automation Asset Management Program (RAAMP)</p>
<p><b>Operate to Specifications</b></p> <p><b>Stabilise Maintenance Budget</b></p> <p><b>Reduce Downtime Duration</b></p>	<p><b>PREVENT</b></p>	<p><b>Remote Monitoring Services</b> System Monitoring/Diagnostics by Offsite Automation Specialists</p> <p><b>Parts Management</b> Rockwell Automation Owned On-site Spare Parts Inventory</p> <p><b>Network Services</b> Design, Validation, Evaluation and Maintenance of Control Networks</p> <p><b>OnSite Support Services</b> Troubleshooting, Repair and Maintenance of Automation and Related Equipment</p> <p><b>Training</b> Instructor-led Training, Self-paced Training and Competency Testing</p>
<p><b>Improve Speed to Change</b></p>	<p><b>REACT</b></p>	<p><b>Repair Services</b> Remanufacturing, Repair, and Exchange Services and Renewal Parts</p> <p><b>Phone Support</b> Real-time, direct access to Automation Specialists</p>

### For More Information

To learn which Rockwell Automation® Services & Support will be most beneficial to your maintenance strategy, contact your local authorised Allen-Bradley distributor or Rockwell Automation sales office.

