ABB

ROBOTICS SERVICES

Safety, efficiency, and productivity with ABB robots

Training course guide 2022

What can you expect when you participate in an ABB Robotic Services Training Course?

Our ABB Australia Robotics Process Application expert trainers have a wealth of experience over a broad range of applications and leading segments employing robotic technology. This enables them to teach to a level of depth that remains unmatched in Australia.

Above hearing about their real-world examples which can be beneficially adopted, learners will also pick up the necessary recommendations around good practice when it comes to working with our ABB robots.

This is a unique attribute to our course offering as it facilitates a learning environment comprised of course content, open question opportunities, knowledge exchange, and the most compelling conversations in the ever-changing world of Robotics.

We've witnessed a phenomenal growth of the robotics industry in the last 20 years alone. Robots have been intrinsic in the manufacturing and processing of the products we come across in our everyday lives - from the cars we drive to the food we eat, even in laboratory research and warehouse sorting for all those products we purchase online. These examples merely scratch the surface and new initiatives are being implemented each day.

What's the potential for your ABB robots? Be a part of this evolution and learn more with our expert team today.

2022 course offerings

NAME: IRC5 Programming
COURSE CODE: R101 AU
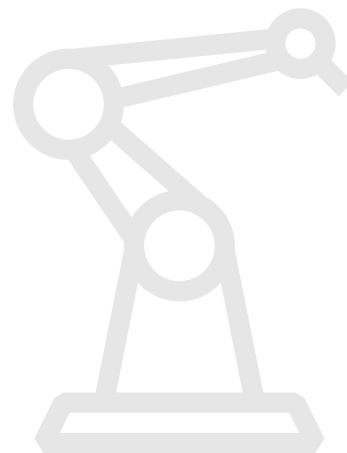**DURATION: 4 days**

REGISTER

You'll learn all the essential building blocks to enable you to competently program ABB Robots. You will also get the opportunity to create a working robot program from scratch.

Course outline includes:
- Jogging and safety
- Fundamental programming concepts including co-ordinate systems,
- tool data, movement types, I/O handling
- System configuration
- Practical exercises
- Calibration and software installation
- Introduction of RobotStudio® for Programmers

Pre-requisites:
- Fundamental computer skills
- Laptop (preferably with current version of RobotStudio® already installed)

NAME: IRC5 Advanced Programming
COURSE CODE: R102 AU
DURATION: 3 days

REGISTER

Looking to get more out of your ABB robots? Find out what they are capable of with our advanced course which aims to enhance program knowledge. It's also tailored help you discover how to meet the specific needs of your customers.

Course outline includes:
- Data manipulation, custom data types
- IRC5 User interface instructions
- Creating/using advanced procedures and functions
- Error handling and search functions
- Interrupts and motion events
- Practical use of RobotStudio® for Programmers

Pre-requisites:
- Completion of IRC5 programming course or equivalent practical experience
- Laptop with current version of RobotStudio® already installed (no licence required)
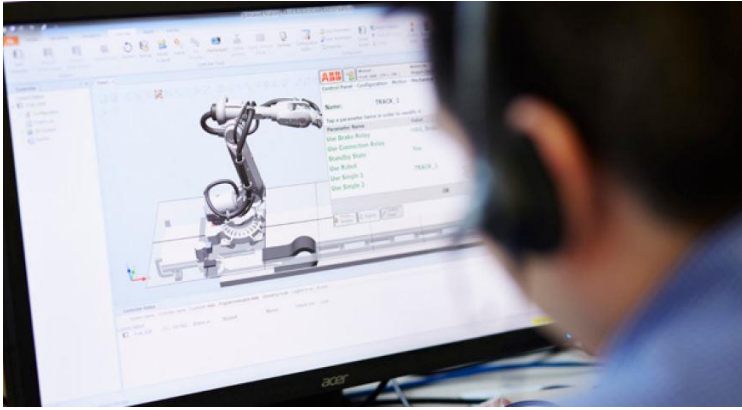
**NAME: RobotStudio®
Simulation**
COURSE CODE: R103 AU
DURATION: 3 days

REGISTER

Unleash the power of ABB's RobotStudio® simulation software- the world's most used offline programming tool for robotics. Learn how RobotStudio® can be used in all stages of robotics integration, from the sales phase to final commissioning.

Course outline includes:

- Offline programming to maximise return on investment for robot systems
- Optimising simulation and offline programming software
- Robot programming on a PC without shutting down production
- ABB Virtual Controller
- RobotStudio® package options, feature functionality and add-on options to fasten start-ups, shorten change-overs, and increase productivity

Pre-requisites:

- Completion of IRC5 programming course or equivalent practical experience
- Laptop with current version of RobotStudio® already installed (no licence required)
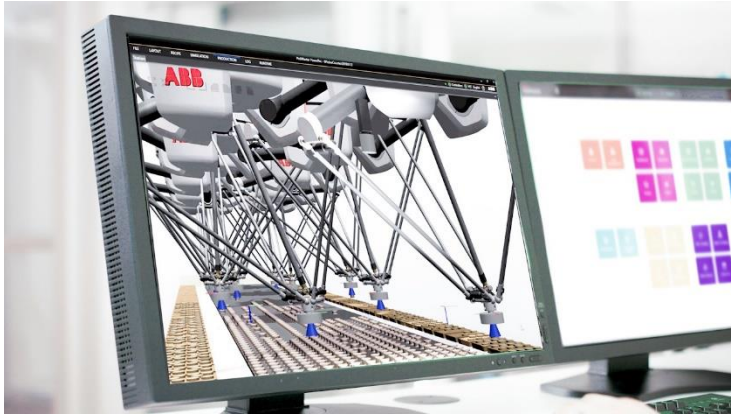
NAME: RobotStudio® for Programmers
COURSE CODE: R104 AU
DURATION: 1 day

REGISTER

Learn how RobotStudio® can assist you as an ABB robot programmer, to enhance your operational productivity and optimise the capabilities and efficiency of your robot(s). This course is a must for commissioning engineers or those making frequent program changes to suit their production needs.

Course outline includes:
- Digital Twin to monitor the automation solution without disrupting production
- Developing real-time simulations
- Virtual commissioning
- Pre-empting technical issues
- Connecting to PLCs and other external devices
- Virtual testing of complete logic and safety of cell prior to installation
- Stop position simulation
- SafeMove for greater flexibility, space savings, and cutting-edge commissioning
- Using Augmented Reality technology to visualise robot solutions
- RobotStudio® AR viewer app

Pre-requisites:
- Completion of IRC5 programming course or equivalent practical experience
- Laptop with current version of RobotStudio® already installed (no licence required)

NAME: Onsite IRC5 User Training
COURSE CODE: R105 AU
DURATION: 8 hours

REGISTER

Designed to suit the needs of engineers and programmers working with robots on the factory floor daily.

Course outline includes:
- Jogging
- Teach pendant navigation
- Making backups
- Calibration
- Getting out of trouble
- Making simple changes to the program (eg. position touch-ups)
- Controller safety structure and hardware architecture

Pre-requisites:
- Established user of ABB robots
- Training done onsite using your own robots

NAME: Onsite One-on-One User Training
COURSE CODE: R106 AU
DURATION: 2 hours

REGISTER

A shortened version of IRC5 (course code R105 AU) training course, with the added advantage of using your own site robots. Covers the same topics as R105 AU, except for program modification/controller structure.

Course outline includes:
- Jogging
- Teach pendant navigation
- Making backups
- Calibration
- Getting out of trouble

Pre-requisites:
- Established user of ABB robots
- Training done onsite using your own robots

2022 training course schedule

Course Code	Days	Location	Price Per Person	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
R101-AU IRC5 Programming	4	Melbourne	$3,050.00	The below dates are availability only for R101, R102 and R103. Courses will be confirmed once the minimum particpant numbers have been filled. Courses will be rolled over to the next available date if not completely filled. Dates outside of the scheduled dates will be considered if we have enough participants.											
R102-AU IRC5 Advanced Programming	3	Melbourne	$2,350.00	18th to 21st	8th to 11th	22nd to 25th	5th to 8th	3rd to 6th	7th to 10th	12th to 15th	9th to 12th	6th to 9th	11th to 14th	8th to 11th	13th to 16th
R103-AU RobotStudio Simulation	3	Melbourne	$2,350.00		22nd to 25th			24th to 27th	21st to 24th		23rd to 26th	20th to 23rd		22nd to 25th	
R104-AU RobotStudio for Programmers	1	Melbourne	$900.00	Dates to be organised as the particpant numbers are filled. Minimum numbers are required for this course.											
R105-AU ONSITE - IRC5 User Training	1	All States	$900.00	Minimum 4 persons per site basis - we will use the customers robots and teach pendants. This will involve class room and practical training. NOTE: Price excludes travel and associated costs - TBA											
R106-AU ON SITE - One on One User Training	2 hours/per son	All States	$600.00	Minimum 2 persons per site basis - basic operator functions of the robot and teach pendant (on site using customer's robots). NOTE: Price excludes travel and associated costs - TBA											
R107-AU SPECIALISED - On Request e.g. Troubleshooting Applications	1 to 4	POA	POA	Please call for a date and quote for training on your site.											

How to book a course

Click on the "register" link below the course name you want to register for above. Or, simply scan the QR code below to register your interest.

Confirmation of your booking

Written confirmation of the course details and times will be sent to you approximately 1-2 weeks prior to course commencement.

Our office locations

Victoria

ABB Australia Pty Limited
601 Blackburn Road
Notting Hill, VIC. 3168
[Google Maps](#)

New South Wales

ABB Australia Pty Limited
1 Bapaume Road
Moorebank, NSW. 2170
[Google Maps](#)

Terms and conditions

Course payment

- If payment has not been received by ABB 2 weeks prior to course commencement, the reserved position will be deemed vacant.

Cancellation policy

- Cancellations accepted up to one week before the starting date. Rescheduling can occur at no cost.
- Less than a week before up to the day before the start of the course, a 50% cancellation fee will apply
- For no shows or cancellation on the day of the course, a 100% cancellation fee will apply.

NOTE: Circumstances will be considered but the cancellation policy will be enforced.

Course fee

- The course fee includes all materials, documentation, refreshments, and lunch (excluding on-site courses).
- Courses do not include travel or accommodation.
- ABB reserves the right to change course schedules or cancel courses due to insufficient numbers booked on individual courses, or COVID restrictions.
- Training vouchers will be issued for ABB cancelled courses which have been paid for.

NOTE: All prices indicated do not include the component of the Goods & Services Tax levy (10%), which shall apply (unless exempt).

Group discounts

- 3 people = 5% discount on the per person price.
- 4–6 people = 7.5% discount on the per person price.
- 7–9 people = 10% discount on the per person price.
- 10 or more people = 15% discount on the per person price.

NOTE: The above discounted rates do not apply to course R106 AU.

Participant testimonials

"Very engaging"

"This was a course specifically tailored for our company covering SafeMove, Integrated Vision, Multi-Tasking, Interrupts, Path Recorder, Screen Maker, Production Screen Training. Knowledgeable trainer covered all topics. Very engaging."

- 2019 LEARNER

"Having a YuMi available to play with was an added bonus."

"Will be extremely handy to use on the job."

- 2019 LEARNERS

"All topics were valuable"

"Thoroughly enjoyed it. Has opened my eyes to what is coming."

"Great course. I am just keen to put it into practice on some real projects."

"I liked how flexible the course was in terms of programming online and offline."

"I valued being taught about new types of robot applications."

"Great course for both introduction and more advanced participants."

- 2021 LEARNERS

Meet our expert trainers

Tomas Fastesson and Gavin Rudd are our ABB Australia Robotics Process Application expert trainers based in Melbourne.

Their tenure with ABB spans almost 50 years combined. Like many in the industry, they have found the world of robotics both challenging and rewarding, as it is a sector that is consistently finding new ways to improve, advance, and innovate.

Gavin Rudd

Gavin's industry knowledge can be traced back to the field of Food and Beverage, where he spent many years before joining ABB. His skills are undoubtedly well-applied, given this sector is also a primary one for ABB robotics and discrete automation. Needless to say, the experience Gavin has brought to the company continues to be rich and full of insight adding substantial value to our team.

Since joining ABB Gavin has been an integral part of many influential projects in a wide variety of applications including arc welding and manual handling, which have brought value to our customers in areas of process optimisation and increased plant safety.

Tomas Fastesson

Tomas originally hails from Sweden - the centrepiece of ABB Robotics. He has a background working in the automotive industry and has strengthened his skills working around the world on various projects. He's one of the only ABB Australia Robotics team members who has had the privilege to learn about and work with some of the earliest models of robot generations ever to come out of ABB.

As such, Tomas maintains an impeccable reputation within the robotics industry for his advanced programming skills and RobotStudio® (ABB's simulation and offline programming software) knowledge.

Contact us

[Click here](#) to be contacted about an ABB Robotics Services course or scan the QR code below.

Learn more about [ABB Robotics](#)