



ROBOTICS SERVICES

Safety, efficiency, and productivity with ABB robots

Training course guide 2023

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.



2023 course offerings



NAME: IRC5 Programming 1

COURSE CODE: R101 AU

DURATION: 4 days

REGISTER

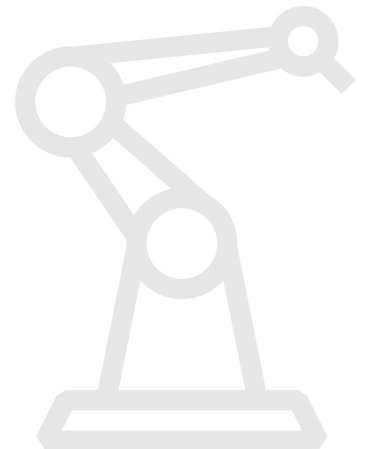
You'll learn all the essential building blocks to enable you to competently program ABB Robots. You will also get the opportunity to create a working robot program from scratch.

Upon completion of this course, the student should be able to:

- Jog the robot both linear, reoriented and axis-by-axis.
- Structure a program using routines, modules and named data.
- Understand the difference between Task and Program.
- Program basic movements.
- Recognize if the revolution counters are ok and to reset if needed.
- Create and define tooldata.
- Create and define wobjdata.
- Save programs and backup the system.
- Create a virtual copy of a real controller.
- Use RobotStudio for editing the robot
- Program both online and offline.

Pre-requisites:

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





NAME: IRC5 Programming 2
COURSE CODE: R102 AU
DURATION: 4 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.

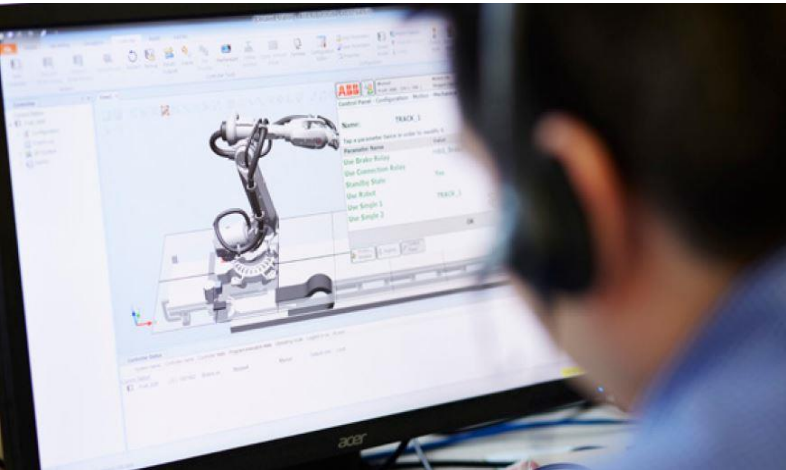
Upon completion of this course, the participant will be able to:

- create and define work objects and advanced tooldata
- use RobotStudio for editing the robot program both online and offline
- create and use modules, routines, and data
- program search instructions
- program position displacement instructions
- program error handling instructions
- program interrupt instructions and traps
- use joint configuration instructions
- use motion control instructions

Pre-requisites:

- Completion of IRC5 Programming 1 course or equivalent practical experience
- Laptop with current version of RobotStudio® already installed (no licence required)





NAME: RobotStudio® 1
COURSE CODE: R103 AU
DURATION: 4 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.

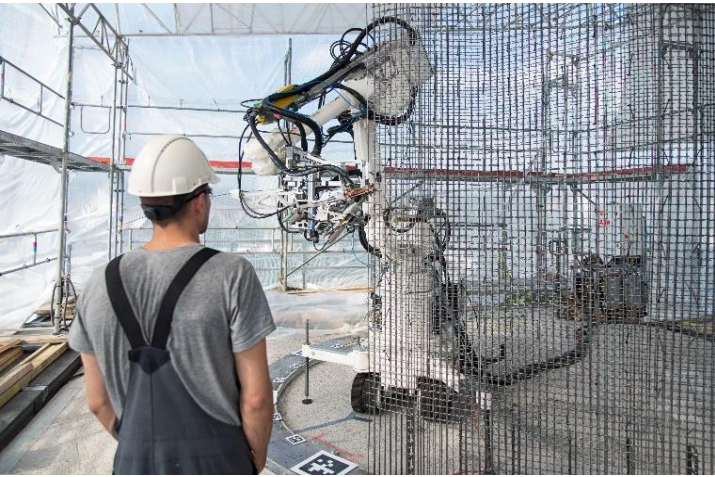
Upon completion of this course, the student will be able to:

- Build a station in RobotStudio.
- Use graphical programming to program virtual robots.
- Analyse signals in a simulation and use this to improve performance.
- Create basic 3D objects to use in simulations.
- Set up “virtual wiring” between components in a station virtual station.
- Transfer programs from a virtual controller to a real controller.
- Set up station with an external axis such as a track or positioner.
- Create a realistic station and record simulation videos for sales purposes.

Pre-requisites:

- Completion of IRC5 Programming 1 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 content 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 content 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



2023 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 1	4	Melbourne	\$3300 (+10% GST)	The below dates are availability only for R101, R102 and R103. Courses will be confirmed once the minimum participant 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 Programming 2	4	Melbourne	\$3300 (+10% GST)	17th to 20th	7th to 10th	7th to 10th	18th to 21st	2nd to 5th	6th to 9th	11th to 14th	8th to 11th	5th to 8th	10th to 13th	14th to 17th	5th to 8th
R103-AU RobotStudio 1	4	Melbourne	\$3300 (+10% GST)		21st to 24th	28th to 31st		23rd to 26th	20th to 23rd	25th to 28th	22nd to 25th	19th to 22nd	24th to 27th	28th to 1st (Dec)	
R105-AU ONSITE - IRC5 User Training	1	All States	\$1000 (+10% GST)	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/person	All States	\$650 (+10% GST)	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. Else, 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
597 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 reschedule or cancel courses due to insufficient numbers booked on course dates.
- Training vouchers will be issued for ABB cancelled courses which have been paid for.
- Any courses paid for, must be completed within the calendar year, unless otherwise organized or agreed by both parties.

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 = 2.5% discount on the per person price.
- 4–6 people = 5% discount on the per person price.
- 7–9 people = 7.5% discount on the per person price.
- 10 or more people = 10% 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

“The trainer had a lot of knowledge and could answer any questions I had.”

“Very useful for the work I do”

- 2022 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](#)



Robotics Services
ABB Australia
601 Blackburn Road
Notting Hill Vic 3168
Phone: 1800 222 435

Contact:
John Young
Service Manager, Robotics

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