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)
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 tool data
- 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)
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

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

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
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

“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.”

- 2022 LEARNERS

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

“Very useful for the work I do”

- 2022 LEARNERS

- 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

Campaign.abb.com/roboticstraining