OMRON

Industrial Automation Academy
Go Exploring for Innovation

Development of Present and Future Technical Personnel within Manufacturing

We support the development of technical personnel and careers in the manufacturing industry as we strive towards the realization of manufacturing that empowers each and every individual.

The manufacturing world faces transformative changes, with pressing issues prevalent in the field today. One question stands out: What is essential for sustainable manufacturing? The answer is clear — innovation springs from our people, a conviction solidified through our continuous customer dialogue.

Amid the growing importance of ESG (Environmental, Social, and Governance) management, the value of human capital is soaring. The disclosure of human capital information and demonstration of human resource development efforts are becoming imperative to enhance corporate value. Meanwhile, many companies face common issues in advancing human resource development: identifying and systematizing the necessary knowledge and skills, establishing continuous training systems across domestic and international sites, and adapting flexibly to changes with time.

In April 2023, we launched the Industrial Automation Academy (IA Academy) to meet these needs head-on. The IA Academy is a solution service to enhance the competencies and careers of those in manufacturing. Merging our robust in-house technologies and field expertise with our global presence, we offer a systematic IA education curriculum, providing comprehensive training solutions right at our customers' doorstep.

We believe developing technical personnel is not just for speeding up the evolution of manufacturing but enriching our lives globally. The IA Academy's journey commences now, always in partnership with our valued customers.

OMRON Always Believes in Your Potential First and Foremost

Thoughts Behind Our Brand Mark

Industrial Automation Academy
Go Exploring for Innovation

Gear and Crown — By envisioning a gear, a symbol of manufacturing, as a crown, we represent each individual's potential to shine.

Book and Door — By likening a book, emblematic of learning, to a door being opened, we convey the idea of drawing out each individual's potential and leading them towards the threshold of a new future.

Service Name Initials — The initials of our service name, IA Academy, are placed to express our identity.

Tagline — "Go Exploring for Innovation" encapsulates our desire to embark on a journey of knowledge and discovery towards the creation of innovation together.

A One-Stop Solution to Support Development of Technical Personnel and Careers in Manufacturing

The IA Academy transforms OMRON's technical, local, and training capabilities into value, offering comprehensive support from the planning and design of the optimal IA training system to practical training.

Framework

/// Assets and Experience to Create the Optimal IA Training System

Technical Capability in Resolving Individual On-site Issues

We possess over 200,000 control devices, including sensors and other input devices, controllers, motion drives, robots, and safety equipment. Moreover, we have experience and achievements of implementing control applications designed for individual customer objectives and situations.

Training Capability Forged in Our Own Factories for Over 90 Years

For many years, we have practiced human resource development in manufacturing with the same approach as our customers. As proof of this, we offer over 1,000 courses globally, developing know-how and achievement by continuously engaging in dialogue with customers and responding with individual solutions.

Structure

/// Specialist Teams that Connect Countries and Regions on Behalf of Our Customers

Coordinators Attuned to Our Customers

Together with our customers, we unravel issues and desired vision to propose the most optimal human resource development solutions. We work in coordination with local IA curriculum planners and instructors well-versed in on-site issues to advance steps to solve issues.
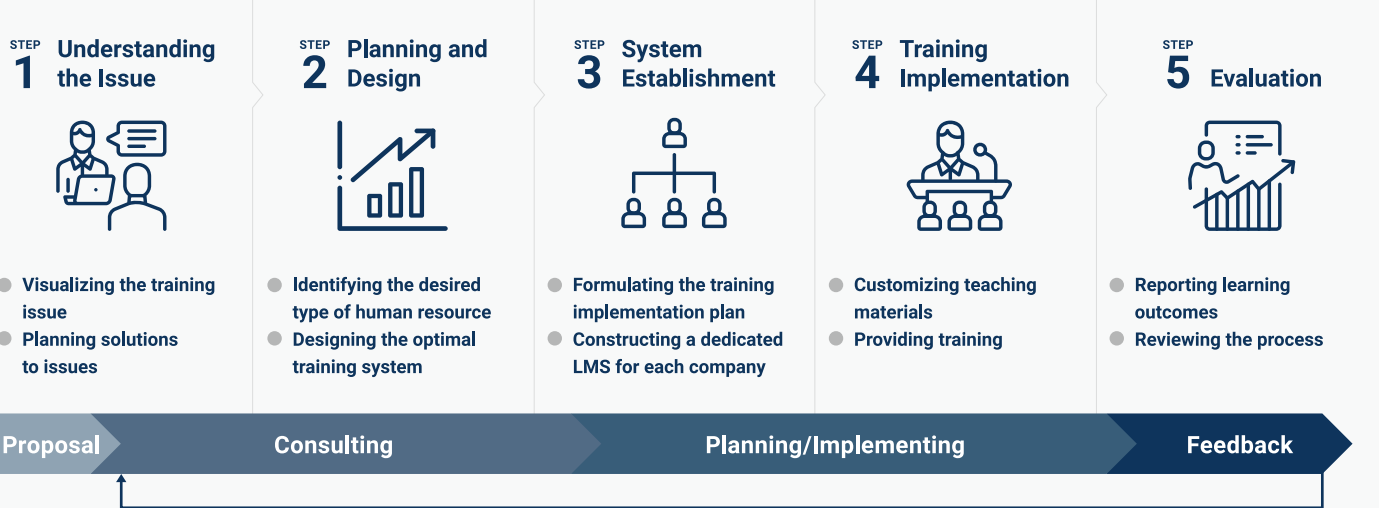

Total Organizers Connecting the World

To meet training needs across multiple countries and regions, we organically connect local coordinators to play a hub-like role. We offer total support for the learning needs of customers expanding their business globally.

Process

/// Steps to Solve Human Resource Development Issues

STEP 1 Understanding the Issue
- Visualizing the training issue
- Planning solutions to issues

STEP 2 Planning and Design
- Identifying the desired type of human resource
- Designing the optimal training system

STEP 3 System Establishment
- Formulating the training implementation plan
- Constructing a dedicated LMS for each company

STEP 4 Training Implementation
- Customizing teaching materials
- Providing training

STEP 5 Evaluation
- Reporting learning outcomes
- Reviewing the process

Proposal → Consulting → Planning/Implementing → Feedback

Proposal
Engaging with our customers, we identify human resource development issues and devise effective solutions.

Consulting
We delineate the type of human resources desired by the customer, strategically plan and design systematic IA education curriculums and courses.

Planning/Implementing
To tailor and provide the optimal plans and training for each company, we define development targets, attendance areas, learning forms, etc.

Feedback
We analyze the report considering participant learning outcomes and questionnaire results to provide comprehensive insights.
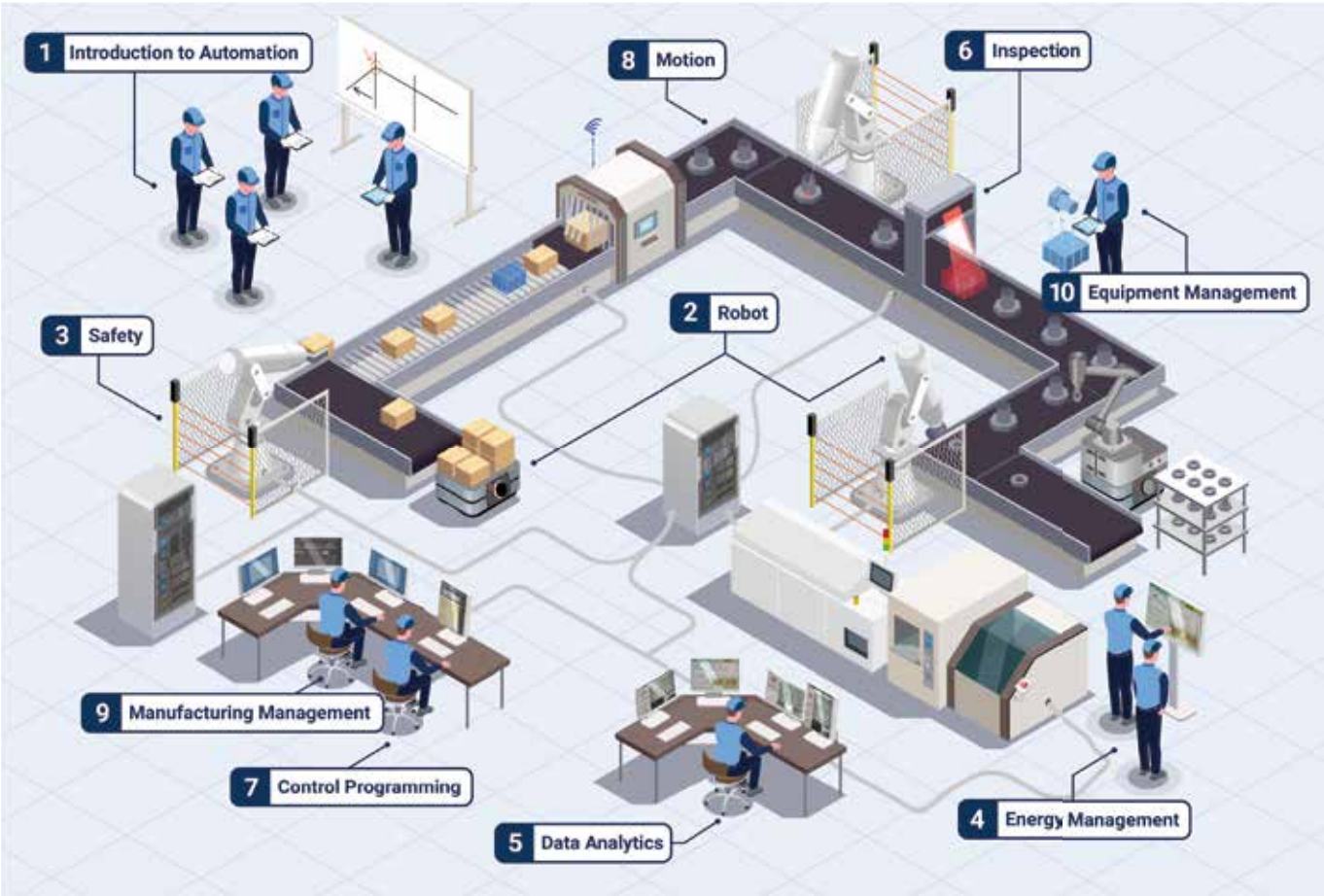
Focused Engineer Programs for Individuals and Career Stages in the Manufacturing Field

The IA Academy offers a comprehensive suite of engineer programs aimed at everyone involved in manufacturing, for the acquisition from knowledge of introduction to automation, to specialized technical skills.
These programs support continuous learning and growth.

/// Essential Knowledge and Skills Required in the Manufacturing Field

1 Introduction to Automation
8 Motion
6 Inspection
10 Equipment Management
3 Safety
2 Robot
9 Manufacturing Management
7 Control Programming
5 Data Analytics
4 Energy Management

1 Introduction to Automation

To acquire basic knowledge in electricity and production, common to the manufacturing field, as well as the basics of control equipment that comprise manufacturing apparatus. This supports new employees and those new to manufacturing in quickly becoming active in the field, as well as aiding in stepping up through reskilling.

Introduction to
Electricity / Production / Occupational Safety / Control / Machine Safety / Control Equipment / Sensing / Sequence Control   and more

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2 Robot Engineer Program

To acquire the basic knowledge of types, characteristics, and applications of robots used in the manufacturing field, and technical skills, such as operation, setting and programming of robots. The goal is to develop human resources capable of implementing and managing robot-assisted transportation and assembly devices.
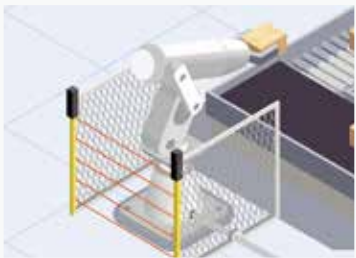
3 Safety Engineer Program

To acquire the basic knowledge of safety standards applied to the manufacturing field, and technical skills, such as the principles, operation and setting of safety devices. The goal is to develop human resources capable of conducting risk assessments under the guidance of safety assessors, and promoting the creation of a safe work environment.

4 Energy Management Engineer Program

To acquire the basic knowledge of carbon neutrality and environmental regulations in manufacturing, and technical skills, such as the principles, operation and setting of condition monitoring devices. The goal is to develop human resources capable of improving energy productivity through learning methods of energy visualization and studying examples of reduction efforts.

5 Data Analytics Engineer Program

To acquire the basic knowledge required for data utilization in the manufacturing field, and analytical skills, such as data collection, storage, statistics, and analysis. The goal is to develop human resources capable of identifying present issues based on the results of data analysis, and promoting the improvement and evolution of the manufacturing field.

6 Inspection Engineer Program
7 Control Programming Engineer Program
8 Motion Engineer Program
9 Manufacturing Management Engineer Program
10 Equipment Management Engineer Program   and more

We customize systematic curriculums according to customer requests.

The IA Academy Network to Connect People and Systems Across Over 150 Locations in 40 Countries/Regions

The IA Academy develops technical personnel through the specialist group 'Team IA Academy' and the customer-dedicated learning experience system 'Platform IA Avenue'.

INFORMATION
For the latest information on IA Academy, please visit here.

Team IA Academy

EUROPE & AFRICA
44 Sales Offices
Training Center 19 Locations | Automation Center 10 Locations

GREATER CHINA
45 Sales Offices
Training Center 16 Locations | Automation Center 5 Locations

CHINA
TAIWAN

KOREA
3 Sales Offices
Training Center 1 Location | Automation Center 2 Locations

AMERICAS
7 Sales Offices
Training Center 5 Locations | Automation Center 8 Locations

INDIA
6 Sales Offices
Training Center 3 Locations | Automation Center 1 Location

ASIA PACIFIC
16 Sales Offices
Training Center 11 Locations | Automation Center 5 Locations

JAPAN
28 Sales Offices
Training Center 5 Locations | Automation Center 4 Locations

Instructors

Platform IA Avenue

Customer-Dedicated Learning Experience System

- Skill Management
- Progress Reports
- Multilingual Support
- IA Curriculum
- Learning Paths
- Standard Materials
- Proficiency Tests
- Certificate of Completion

Total Organizers

Coordinators

Cases of Customers Engaged in Leading Human Resource Development to Drive Manufacturing Evolution

The IA Academy contributes to accelerating the evolution of manufacturing and the resolution of social issues through development of IA personnel and careers.

/// **Cases of Implementation**

Early Workforce Development	Support for the training of new employees to spark interest in manufacturing and prepare them for the field

Major General Electronics Manufacturer

- Providing an integrated training curriculum that systematically combines traditional individual technical training.
- Achieving early development of new employees within just one month.

Issues
- Desire to efficiently teach a wide range of technologies in a short time.
- Wish to provide systematic training rather than ad-hoc, one-off sessions.

Solutions
- Developing a comprehensive curriculum and courses covering the range of equipment used by the customer's facilities.
- Conducting a one-month intensive training at OMRON's facilities, offering lectures, experiential learning, and comprehensive exercises.

Period
Planning and Design to System Establishment: 6 months
Training Implementation: 1 month

Career Development	Support for the development of industry newcomers to become professionals capable of project management in the field

Major E-Commerce & Logistics Company

- Establishing a system and process for the continuous development of engineers, achieving career development.
- Developing human resources capable of undertaking project management on site, starting from those with no prior experience in manufacturing.

Issues
- Difficulty in recruiting technical staff necessitating in-house training of inexperienced individuals.
- Desire to train leaders to automate logistics operations.

Solutions
- Planning and designing long-term training curriculums, learning paths, and courses for engineers.
- Providing an environment where technical and management skills can be acquired simultaneously.

Period
Planning and Design to System Establishment: 9 months
Training Implementation: 14 months

Reskilling	Support for the development of personnel responsible for practical improvements through the understanding of International standard control program structures

Major Automotive Manufacturer

- Implementing international standard programming training in six countries compliant with IEC standards.
- Accelerating technical acquisition and local autonomy through multilingual learning.

Issues
- Want to reduce initial costs by quickly starting up equipment.
- Desire to provide uniform training across multiple global locations.

Solutions
- Designing a common curriculum to master the International Standard Programming Languages (IEC 61131-3).
- Providing face-to-face instruction and on-demand training by local instructors across nine locations in six countries.

Period
Planning and Design to System Establishment: 9 months
Training Implementation: from 1 week

Upskilling	Support for the development of personnel responsible for creating safe and secure work environments in factories worldwide

Major Automotive Parts Manufacturer

- Conducting machine safety training by instructors with specialized safety qualifications.
- Assisting in raising safety awareness among employees globally and constructing safe work environments.

Issues
- Desire to systematically build a safe workplace environment as a company-wide policy.
- Wish to continuously develop safety professionals.

Solutions
- Designing a curriculum that recognizes customer-specific safety measure specifications.
- Delivering training by instructors proficient in the latest safety standards.

Period
Planning and Design to System Establishment: 9 months
Training Implementation: from 3 days