



# Build Knowledge and Expertise with Learning+

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PUBLIC

# Workforce enablement

## ADDRESSING THE CHALLENGES OF THE SKILLS GAP



### Reduce

unplanned downtime risk

Apply the knowledge you've gained

Leverage virtual support tools, learning resources and modern training tools

Quick, easy access to support



### Improve

operational productivity

Reduced mean-time-to-repair

Interactive tools help you manage your teams' skill sets and output



### Decrease

overall training costs

On-demand support resources and interactive tools

Access via augmented and virtual reality

Reduced troubleshooting time

# Build and maintain the right workforce to meet your unique needs

Transforming your workforce requires a multi-faceted strategy

## Train

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- E-learning courses
- Instructor-led courses
- Consulting assessments

## Support

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- Technical remote support
- On-site support with field engineers
- Remote monitoring & managed services
- Virtual assistance

## Augment

- Train highly skilled veterans for automation roles in manufacturing
- Augmented Reality work instructions
- Embedded engineers

**Rockwell Automation has the expertise to develop a strategy that will equip your workforce with the right skills, knowledge, and tools for smart manufacturing**

# What

## Supplement

Technical Workforce



**2.7M**

Baby boomers will retire

BY 2025



**2M**

Jobs are expected to go unfilled

Source: Analysis based on data from U.S. Bureau of Labor Statistics and Gallup survey.

# Why

## WHAT IS THE SKILLS GAP?

**It's a shortage of skilled, trained people.** It's the difference between what workers know how to do and what employers need.

## HOW COULD IT AFFECT YOU AND YOUR COMPANY?

**3.4 million manufacturing jobs are likely to be needed.** But 2 million of those are expected to go unfilled, presenting a serious challenge.



# Rockwell Automation Training Services

Learning solutions to help build the knowledge and expertise of your personnel



## E-learning COURSES

Interactive learning with simulations and videos

Covers 9 technologies

Available on any tablet or PC using all major browsers

Learners earn certificates upon completion

## virtual Classroom BLENDED COURSES

Hybrid, instructor-led courses

Blends e-learning, video assets, student materials, instructor lecture, interactive labs, collaborative Q&A

Scheduled to run to allow customers freedom to participate in the learning experience on demand

## More Learning Enhancements and Tools

Genius Webinars live and on-demand

Knowledge assessments to baseline understanding on a technology

Optionality in what learning content best fits learners needs with a variety of subscription choices



## INSTRUCTOR-LED COURSES

Open enrollment courses

Covers Rockwell Automation technologies

Designed to align with specific job functions & focus on relevant tasks

Private training tailored for your needs, delivered at your site

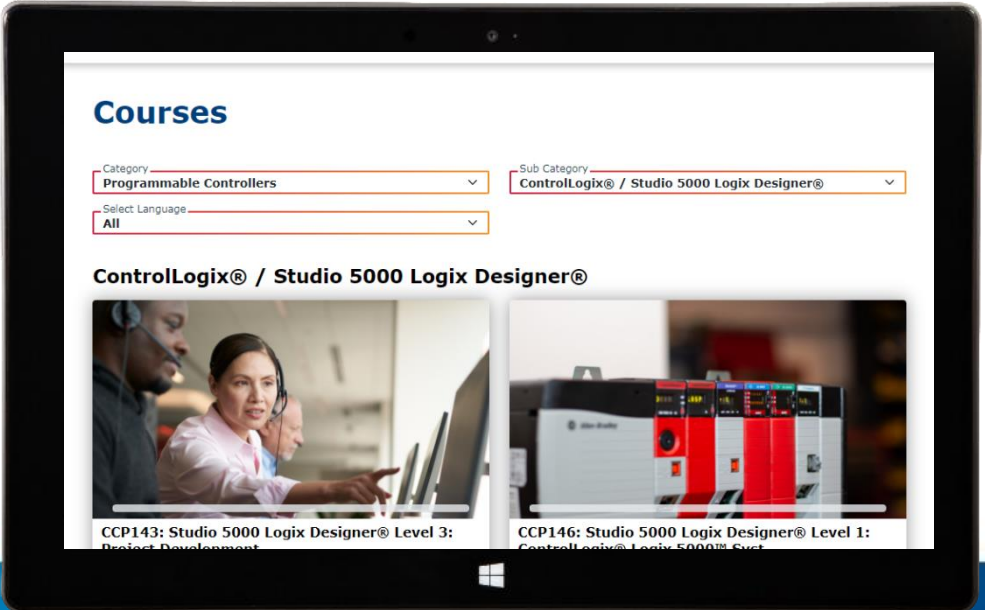


## GLOBAL WORKFORCE SOLUTIONS

Workforce development with a program management approach

Consultative assessment of needs leading to a training plan that is designed to meet your needs

[Go to rok.auto/training](https://rok.auto/training) for details



## Lower Training Costs

As a subscriber, you can access all e-learning content and participate in unlimited scheduled virtual classroom sessions with our annual subscriptions.

Take more than thirty of our most popular courses for about the same price as a single five-day in-person training class.

## Reduce Unplanned Downtime Risk

A well-trained workforce is the greatest asset when it comes to keeping production running.

It has never been easier to access Rockwell Automation instructors and courses – upskill your team today.

## Reduce Travel Expense

A Rockwell Automation Learning+ training subscription is available anytime, anywhere.

Learning+ provides the desired hybrid of self-paced study and interaction with our expert instructors to create the most powerful learning experience available.

# Learning+ Features

## MORE THAN 400 HOURS OF EDUCATIONAL CONTENT

A global library consisting of more than 40 self-paced automation courses across 9 technologies, 60+ craft skills self-paced courses across 8 knowledge areas, and hours of videos. Content availability is based on subscription type.

## 11 HYBRID VIRTUAL CLASSROOM SESSIONS

Modularized virtual lectures, lab experience demonstrations, simulations and demonstration videos, and available office hours for small group coaching to enhance learning concepts.

## KNOWLEDGE ASSESSMENT TOOL

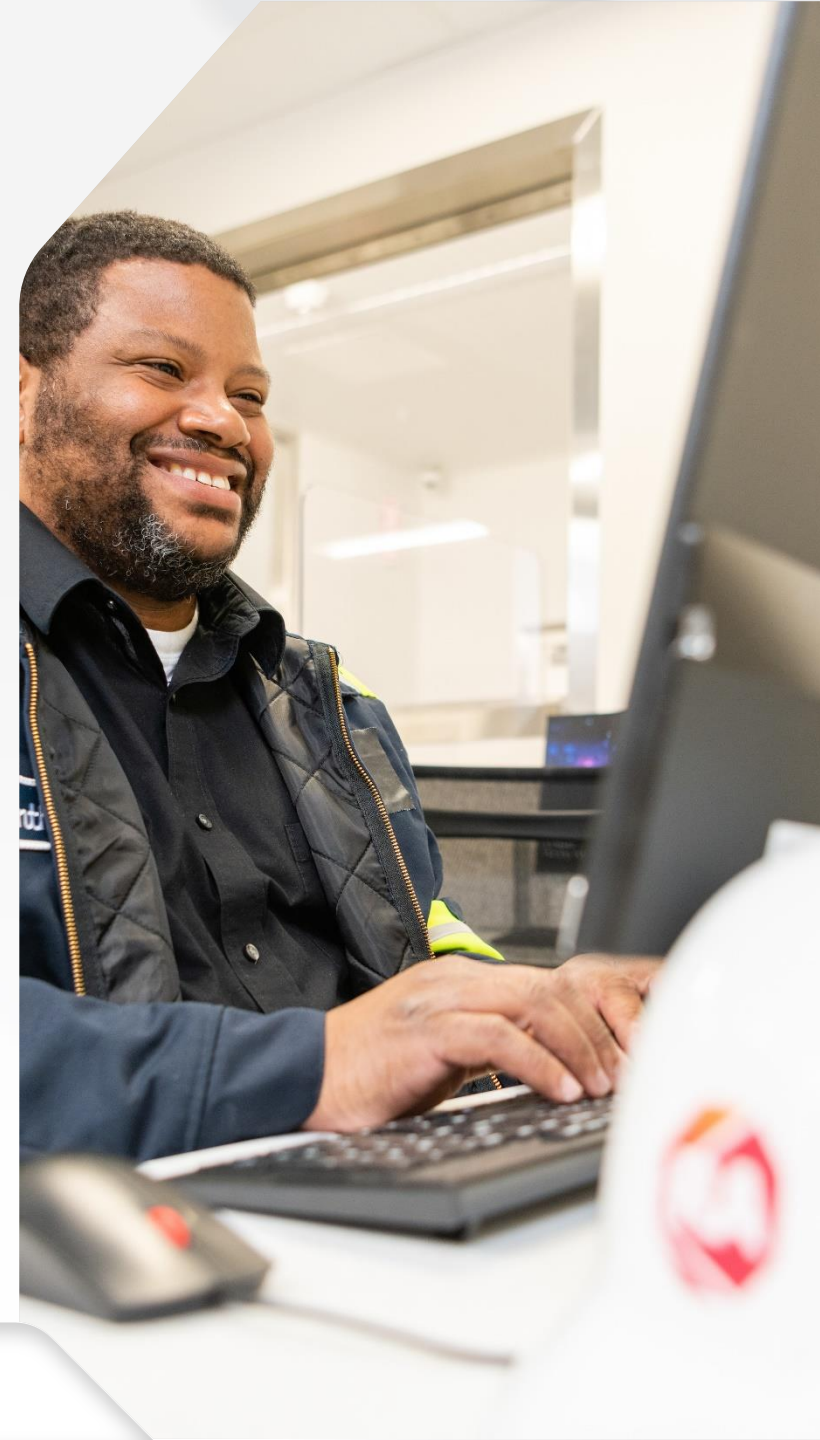
Learning+ subscribers will have access to knowledge assessments to baseline understanding of a technology. This can help support you in making data-driven decisions on which courses might be right for you.

## MONTHLY GENIUS WEBINARS

Every month Learning+ subscribers will be invited to attend a live webinar delivered by a Rockwell Automation technical expert. Can't attend live? Don't worry, all sessions will be available on the platform for on-demand access!

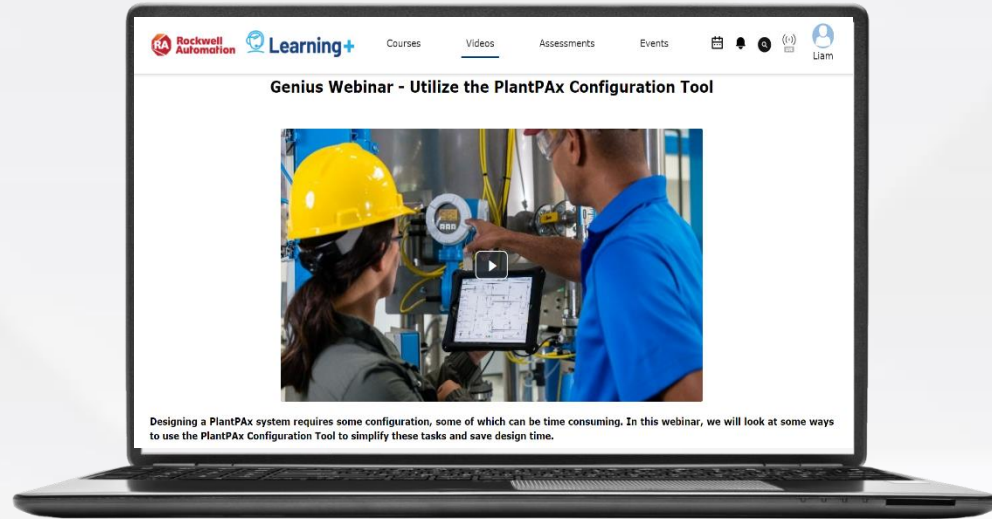
## VALIDATED LEARNING

Lessons have a checkpoint, requiring 80% to pass. Upon passing all knowledge checks, a learner will be awarded a Rockwell Automation Certificate of Completion.



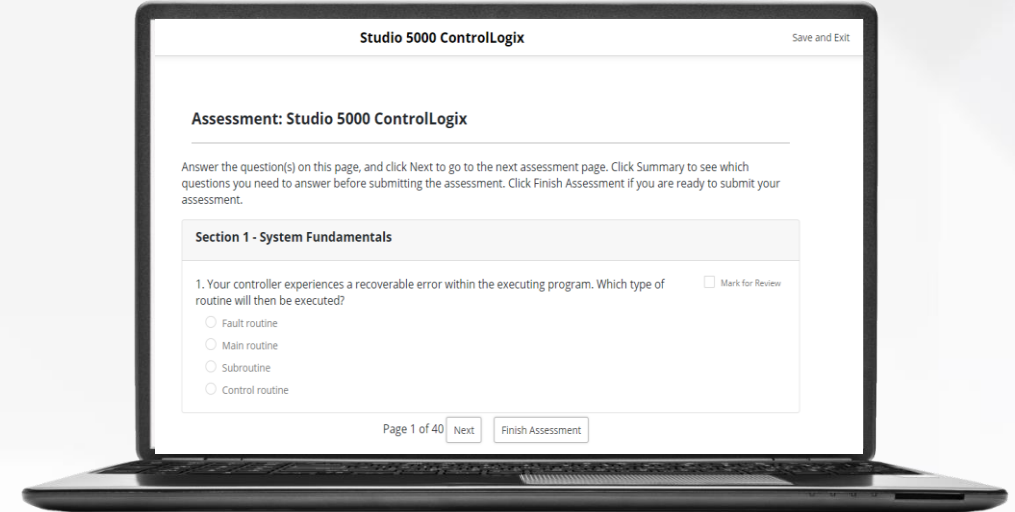
# More Enhancements and Tools to Improve the Learning Journey

Additional content and tools to enrich the learning experience



## MONTHLY GENIUS WEBINARS

- A different technical topic will be covered by a Rockwell Automation technical expert on a live webinar each month
- Those who join the live session can participate in live question-and-answer with the presenter, offering the opportunity for immediate confirmation and engagement on the topic
- All webinars are recorded and hosted in the Learning+ platform for learners to access on demand for the duration of their subscription



## BASELINE KNOWLEDGE

- Learners can access 12 product/technology-related assessments to baseline their knowledge on the topic
- Using the results, learners can choose if they want to spend time taking specific courses
- This new feature will aid the learner in knowing how best to use their training time in the vast library of content



# Administrative Dashboard

Reporting and administrative features for **multi-user** subscriptions

- A variety of reports showcasing learner usage and progress
  - Course Completion Report
  - Access Key Report
  - Flex Subscription Report
  - Survey Report
  - Virtual Instructor-led Led Training Report
  - Virtual Instructor-Led Training Enrollment Report
  - User Activity Report
  - Learning+ Usage Report
  - Assessment Report
- Customer supervisor administrators can add other administrators to share administrative privileges
- Use the Learning+ Administrator User Guide for a detailed walk-through of all features



# Learning+ Craft Skills

NEW!

Foundational industrial skills critical to operating and maintaining production

- Over 140 hours of content on industrial craft skills:
  - Mechanical technician skills
  - Electrical technician skills
  - Maintenance and Shop Equipment
  - Math and Sciences
  - Instrumentation and Control
  - Operational Excellence
- Each course has learning objectives, self-paced instruction, and an assessment to test your understanding

## • Example:

### **Mechanical Maintenance – Valve Maintenance Theory**

After completing this lesson, the student should be able to identify:

- The meaning of the flow coefficient
- Valve construction materials and characteristics
- Major valve components
- Conditions affecting valve operation



# Learning+ Craft Skills

500+ craft skills lessons with over 140 hours of content designed for electricians, mechanics, and I&C technicians. In addition, many topics may apply to operators who also have equipment maintenance responsibilities.

## INSTRUMENTATION & CONTROLS

- Alternating Current (AC)
- Bailey Pneumatic Meters and Controls
- Continuous Emission Monitoring (CEM) Systems
- Control Instrumentation
- Digital Electronics
- Direct Current
- Electronic Circuits
- Field Devices
- Fire Protection Instrumentation
- Instrumentation Measurement Applications
- Microprocessors
- Process Control Instrumentation
- Semi-Conductors
- Soldering
- Tubing and Fittings

## MECHANICAL

- Air Compressor Maintenance
- Bearing Maintenance and Lubrication
- Centrifugal Pump Maintenance
- Conveyor Belt Maintenance
- Coupling and Shaft Alignment
- Fluid Power (Hydraulics)
- Gaskets and O-rings
- Heat Exchangers
- Laser Aided Shaft Alignment
- Lubrication Maintenance and Oil Analysis
- Piping
- Positive Displacement Pump Maintenance
- Precision Measurement
- Valve Maintenance

## ELECTRICAL

- Battery Chargers
- Electrical Codes and Standards
- Electrical Control Devices
- Freeze Protection
- Generators
- Limitorque Valves
- Locating Electrical System Grounds
- Low- and Medium-Voltage Circuit Breakers
- Motors
- Prints and Drawings
- Single- and Three-Phase Circuits
- Transformers
- Variable frequency drives
- Vibration Analysis

## GENERAL CRAFT

- Band Saw
- Drill Press
- Hand Tools
- Lathes
- Grinders
- Vertical Milling Machine
- Welding
- Math & Sciences
- Operational Excellence
- Power Plant Systems
- Renewables



# Learning+ Flex

NEW!

New flexible Learning+ option that puts you in control

- Purchased as a minimum of 25 users
- The number of users purchased is how many users can have active Learning+ access at a time
- All access is still via a single access key that unlocks the content
- Being an “active” user means that content is unlocked and consumable
- Customer administrator can deactivate users and free up that seat so it can be reallocated to another user
- All progress remains with the learner whether they have active access or not





# Learning+ Flex Examples

Learning+ the way your teams need it!

## Needs to upskill a set of employees

### Purchases 30 Learning+ Flex users

- Shares all 30 seats on access key
- After 4 months, 15 people have taken the courses they need to upskill
- Unassign those 15 people and share the access key with 15 new people
- 2 months later, 10 more people complete the courses needed
- Unassign those 10 people and share access key with another 10 people

**Maximizing investment. Total of 55 people trained.**

## Struggles with High Turnover

### Purchases 25 Learning+ Flex users

- Shares all 25 seats on access key
- 1 month later 4 people leave
- Unassign the 4 people that left
- Over the next 2 months 4 new people are hired
- All 4 users are given the access key to Learning+ when onboarded

**Flexibility allowing full value realization**

## Continual learning and development

### Purchases 45 Learning+ users

- Shares all 45 seats on access key
- A new line is being added with new technology requiring reskilling of existing teams
- Unassign 10 people and assign the 10 open seats to the team supporting the new line
- Line is operational for several months, reassign the 10 seats back to the people you took them from to continue their learning

**Meeting the evolving needs of production**

# Subscription Options for On-Demand, Flexible Employee Training Korea

## 90-day Access

**90-day access**  
for a single course  
and access to Virtual  
Instructor-Led Training  
classes occurring during  
access period.  
**LP-3**  
**KRW 875,760**  
**LP3TC**  
**KRW 568,176**

## Single User

**365-day access**  
to automation content  
and all virtual classroom  
sessions for a single user.  
**LP-SU1**  
**KRW 3,169,719**

## Single User Enhanced

**365-day access**  
to automation content  
and all virtual classroom  
sessions for a single user.  
Includes Craft Skills.  
**LP-SU1-ENH**  
**KRW 3,423,296**

## Craft Skills

**365-day access**  
to over 140 hours of craft  
skills courses during  
access period.  
**LP-CRAFT**  
**KRW 669,280**

## Educational

**For active educational  
support program  
customers, 365-day  
access** to all learning  
content and all virtual  
classroom sessions. No  
minimum quantity.  
**LP-EU**  
**KRW 128,730**

**Includes  
Administrative  
Dashboard for  
Multi-Users**

## Multi-User

**365-day access**  
to automation content and all  
virtual classroom sessions.  
**LP-MUT1 (4-9 users)**  
**KRW 3,074,627**  
**LP-MUT2 (10-24 users)**  
**KRW 2,852,747**  
**LP-MUT3 (25+ users)**  
**KRW 2,535,775**

## Multi-User Enhanced

**365-day access**  
to automation content and all  
virtual classroom sessions.  
Includes Craft Skills.  
**LP-MUT1-ENH (4-9 users)**  
**KRW 3,320,597**  
**LP-MUT2-ENH (10-24 users)**  
**KRW 3,080,966**  
**LP-MUT3-ENH (25+ users)**  
**KRW 2,738,637**

## Flex

**365-day access**  
For a minimum of 25 users;  
The number of purchased  
users defines how many  
concurrent learners can be  
active at any one time,  
allowing flexibility.  
**LP-FLEX**  
**KRW 5,500,200**

# Learning+ Courses

## CONTROL

**CCP146:** Logix 5000® System Fundamentals (C,F,G,I,J,K,P,S,T) (V)

**CCP151:** Basic Ladder Logic Programming (C,F,G,P,PL,S) (V)

**CCP152:** Function Block Programming Course (F) (V)

**CCP153:** Studio 5000 Logix Designer® Level 2: ControlLogix® Maintenance and Troubleshooting (F,I) (V)

**CCP154:** Structured Text and Sequential Function Chart Programming (F)

**CCCL21:** Basic Ladder Logic Interpretation (C,F,G,I,P,S) (V)

**CCP143:** Ladder Logic Project Development (C,F,G,P,S,T) (V)

**CMP100:** Connected Components Workbench™ Programming

## DRIVES

**CCA182:** PowerFlex® 750-Series Drives Configuration & Startup (C,F,G,P,S) (V)

**CCA183:** PowerFlex® 750 Series Maintenance & Troubleshooting

**CCA184:** PowerFlex® 750-Series Drives Configuration for an Integrated Architecture® System (C,F,G,P,S)

**CCA185:** PowerFlex® 525 Startup & Configuration (F) (V)

**DRV100** – PowerFlex® Drives Fundamentals

**DRV101** – TotalFORCE® Fundamentals for PowerFlex® 755TS, 755TR, 755TL, and 755TM Drives

**DRV200** – PowerFlex® 755TS Configuration and Startup

## MOTION

**CCN132:** Motion Control Fundamentals using Kinetix® 5700 Drives (C,F,G,P,S)

**CCN144-A:** CIP Motion Programming (Kinetix® 5700) (C,F,G,P,S)

**CCN202:** Kinetix® 5700 Troubleshoot & Project Interpretation

**COMING SOON**

**ICT100:** Getting Started with Independent Cart Technology

**COMING SOON**

**ICT101:** Level 1: Independent Cart Technology Portfolio

**COMING SOON**

**ICT102:** Level 1: iTRAK® Hardware

## VISUALIZATION/HMI

**CCV204-A:** FactoryTalk® View ME and PanelView™ Plus Programming (C,F,G,P,S) (V)

**CCV207:** FactoryTalk® View SE Programming (C,F,G,P,S) (V)

**VIS230:** ThinManager® Configuration & Troubleshooting

**VIS150:** Configure and Deploy a Basic FactoryTalk® Optix™ Project

## LEGACY PRODUCTS

**CCPS41:** SLC™ 500 and RSLogix 500® Programming

**CCPS43:** SLC™ 500 Maintenance and Troubleshooting

**FTADTV:** FactoryTalk® Analytics™ DataView

**FTEG:** FactoryTalk® Edge Gateway™

## PROCESS CONTROL

**EK-ICM101E:** Vibration Analysis Fundamentals (P/M)

**PRC201:** PlantPAx® System Design & Implementation (P)

**PRC203:** PlantPAx® Operating & Maintenance (P/M)

**IN PROGRESS**

**PRC111:** FactoryTalk® Batch I: Batch Server and Configuration Tools

## SOFTWARE

**FTAC:** FactoryTalk® AssetCentre Design and Implementation V10

**ARE100:** Arena® Simulation

## INDUSTRIAL NETWORKING

**CCP183:** EtherNet/IP Configuration and Troubleshooting (C,F,G,P,S) (V)

Industrial Network Architecture:

- **INA201:** Foundation
- **INA202:** Intermediate
- **INA203:** Advanced Part 1
- **INA204:** Advanced Part 2

**CCP184:** Network Fundamentals for Control Systems

**CYB101:** Cybersecurity Fundamentals for OT Env

**CYB103:** Interpret CIP Security in the Industrial Automation Space

## SAFETY

**SAF-LOG104:** GuardLogix® Application Development & Troubleshooting (F) (V)

# Start your workforce transformation

Rockwell Automation **has the expertise** to develop **a strategy** that will **equip your workforce** with the right skills, knowledge, and tools for **smart manufacturing**.

## DISCOVER

*Discuss your workforce challenges and needs with us.*

## ASSESS

*Evaluate current hiring practices, training, company culture, processes & tools.*

## DEVELOP A COMPLETE WORKFORCE PLAN

*Build a holistic strategy to solve your challenges including training and augmented support*

Do you have your workforce strategy in place?





expanding **human possibility**®



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