

AUTOMATION ADS INTERVIEW QUESTIONS

“Master these Automation interview concepts to confidently demonstrate your expertise in industrial control systems, PLCs and SCADA, process automation protocols, robotics and sensors, troubleshooting techniques, system configuration, monitoring and optimization tools, and project management—impress interviewers and accelerate your career in industrial automation.

- What are the benefits of automation?
- What is a PLC (Programmable Logic Controller)?
- What is SCADA?
- What is the difference between manual and automated systems?
- What are sensors and actuators?
- What is HMI (Human-Machine Interface)?
- What are industrial protocols (e.g., Modbus, Profibus)?
- What is process control?
- What is robotics in automation?
- What is ladder logic in PLC programming?
- What is the difference between PLC and microcontroller?
- What is a PID controller?

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- What is the difference between open-loop and closed-loop control?
- What is industrial network communication?
- What is data acquisition in automation?
- What are safety relays and emergency stop systems?
- How do you troubleshoot an automation system?
- What is RTU (Remote Terminal Unit)?
- What is SCADA architecture?
- How do you integrate PLC with SCADA?
- What is OPC (OLE for Process Control)?
- How do you optimize a process for efficiency?
- What are advanced robotics applications in industry?
- How do you implement predictive maintenance using automation?