

Lab Automation Project Checklist

A Blueprint for User-Friendly and Productive Laboratory Environments

Use this checklist to ensure you've	Documentation
covered all critical elements:	☐ System designs & drawings completed ☐ Utilities specifications documented ☐ Cofety descriptions as a least a second lead
Foundation	☐ Safety documentation package assembled☐ User manuals & product information prepared
□ Roles & responsibilities clearly defined□ Project goals & success metrics established	☐ FDS & ATP protocols defined ☐ FAT/SAT terms agreed upon
 ROI model includes both implementation & operational costs 	System Design
☐ Short-term & long-term objectives aligned	
☐ Support and service agreements in place	 Application workflows mapped and optimized Software architecture & integrations planned IT requirements & permissions secured Robot specifications determined
Facilities and Safety	☐ Instrument selection and integration
 Space constraints assessed (ceiling height, obstructions, pathways) 	requirements confirmed Electrical & pneumatic design completed
☐ Floor requirements verified (levelness, anchoring, weight limits)	Ergonomics & user access optimizedModularity & flexibility built in
Utilities planned(power, compressed air, networking)	
☐ EHS team engaged & safety	Risk Mitigation
review completed	\square Training plan developed & scheduled
☐ Compliance verified (ISO, UL, regional standards)	 Scope clearly defined with change control process
Risk assessment conducted	☐ Timeline accounts for dependencies &
☐ Safety measures designed	contingencies
(E-stops, guards, interlocks)	☐ Supplier thoroughly vetted & references check