Data Centers and AI Infrastructure Pathway



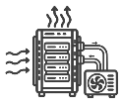
01 | Environmental Control
Explain how temperature, humidity, airflow, and filtration are controlled in a data center.



02 | Data Center Hardware & Connectivity
Identify common data center hardware, cabling, connectors, and network components.



03 | Building Management System (BMS)
Describe how BMS platforms monitor, analyze, and control data center infrastructure.



04 | Internal Cooling Rack Systems
Explain how direct-to-chip and immersion cooling remove heat from high-density IT equipment.



05 | Data Center Operations & Maintenance
Compare predictive, reactive, and preventative maintenance methods.



06 | IT Workload Management
Explain how computing jobs are scheduled, monitored, and managed across available resources.



07 | Data Center Power Systems
Describe how electrical power is distributed, protected, and backed up throughout a data center.

Ready to explore the curriculum and learning systems behind this pathway?
marketing.didactic.us@festo.com

© Festo Didactic, Inc. 2026-11-01. Subject to changes without notice.