

Training Network Installation Record

SH-500B-12 | Local revision 2.0 | 2026-10-27 | Planning example

01 Slot and NIC mapping

Project labels must be mapped to the delivered hardware. NIC costs are included in the configured server price.

Server / asset	NIC / example asset	Specified model	Physical identity	Planned cable
P1-S01 / EXAMPLE-SRV-001	NIC1 / EXAMPLE-NIC-001	MCX75310AAS-NEAT	Record physical slot, serial, firmware and software identifier on delivery.	P1-S01-N1 to P1-L01 J01-A
P1-S02 / EXAMPLE-SRV-002	NIC1 / EXAMPLE-NIC-009	MCX75310AAS-NEAT	Map actual bracket and PCIe location; labels are not serial numbers.	P1-S02-N1 to P1-L01 J01-B
660 servers total	8 NICs each; 5,280 total	640 active + 20 spare servers	5,120 active training ports; spare servers reuse the failed position.	No additional 160 active fabric endpoints

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02 Transceiver and fiber inventory

Five pods across three halls; core in Hall C. Verify every actual route and compatible pair before ordering.

Component	Model / type	Quantity	Basis / delivery check
Training NIC	MCX75310AAS-NEAT	5,280	660 x 8; already included in server price
Switch	QM9700-NS2F	416	160 leaf + 160 aggregation + 96 core
Server single-port optic	MMA4Z00-NS400	5,120	640 active servers x 8; flat-top OSFP
Short-reach dual-port optic	MMA4Z00-NS	8,736	Short-path pairing; 64 unused half-ports
Long-reach dual-port optic	MMS4X00-NM	4,096	Cross-hall switch links; both ends matched
Short-path fiber assemblies	Compatible multimode; final lengths	11,264	5120 server-leaf + 5120 leaf-aggregation + 1024 local aggregation-core
Cross-hall fiber assemblies	Compatible single-mode; actual route	4,096	4096 remote aggregation-core links; optical path up to 500m per supported configuration

Training Network Installation Record

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03 Cable endpoint schedule

Project cage labels J01-J32, half-ports A/B. Map to manufacturer/software names. Expand this format to 15,360 links.

Cable example	Endpoint A	Endpoint B	Optics / route record
P1-S01-N1	P1-S01 NIC1	P1-L01 J01-A	Single-port server optic to short-reach dual-port optic; route length pending
P1-L01-A07	P1-L01 J20-A	P1-A07 J01-A	Short-path pair; leaf port 39 to aggregation port 1
P1-A07-C07-1-01	P1-A07 J17-A	C07-1 J01-A	Long-reach pair, Hall A to Hall C; first of 11 parallel links
P1-A07-C07-2-01	P1-A07 J22-B	C07-2 J01-A	Long-reach pair; second core receives 11 links
P1-A07-C07-3-01	P1-A07 J28-A	C07-3 J01-A	Long-reach pair; third core receives 10 links
P5-A07-C07-1-01	P5-A07 J17-A	C07-1 J23-A	Local Hall C pair; remote pods occupy core ports 1-44 first

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04 Acceptance record

All rows remain planned. Record real evidence on site. Port counts do not establish measured collective-communication performance.

Object	Check	Planned criterion	Actual record / status
P1-S01 NIC1	Inspect hardware and system enumeration	Order model and actual physical mapping agree	Slot / serial / firmware / system ID: pending; not executed
P1-S01-N1	Inspect both endpoints and modules	NIC1 to P1-L01 J01-A matches schedule	Photos / component IDs / polarity: pending; not executed
P1-A07 to core group C07	Check all 32 uplinks and core half-port allocation	11 / 11 / 10 split; remote/local optic types paired correctly	Manufacturer port mapping / actual route lengths: pending; not executed
All 15,360 links	Query expected link rates and error counters	400Gb/s connections and agreed error thresholds	Measured values / logs / time: pending; not executed
Same-pod and cross-pod collective workload	Run target-compatible communication and recovery tests	Contract throughput, stability and failure-recovery criteria	Duration / actual throughput / failure case / decision: pending; not executed