# CISCO UNIFIED EDGE MENTORED POV PLUS

## Service Overview:

At Netnology, we specialize in Cisco Unified Edge enablement and implementation services to accelerate the deployment of Unified Edge solutions. As part of this Mentored Install service, our subject matter experts (SMEs) work alongside your team to guide the installation, configuration, and validation processes while providing hands-on knowledge transfer. This ensures your staff gains the practical skills needed to operate and manage the Cisco Unified Edge platform effectively.

## Solution Overview:

The Cisco Unified Edge Mentored Install Service enables customers to deploy and operate edge computing environments using Cisco Unified Edge servers and supporting network components. The solution provides a secure, scalable, and efficient platform for running applications, analytics, and AI workloads closer to end users and remote sites.

Unified Edge integrates compute, storage, and networking at the edge while extending policy, governance, and operational consistency from the data center or cloud. Systems are configured with standardized profiles, secure connectivity, and workload-ready infrastructure that supports virtualization, container platforms, and edge-native applications.

Lifecycle operations—including provisioning, policy configuration, monitoring, and updates—are performed through Cisco Intersight or customer-approved orchestration tools, enabling centralized visibility and simplified management of distributed edge locations.

## Service Benefits:

Netnology has a team of world class engineers who specialize in Data Center Solution. This Mentored Install engagement will provide information on how to deploy, configure and integrate Cisco Unified Edge.

## Service Scope:

As part of the 5-day (up to 40 hours) engagement, Netnology will provide the following services:

- **Unified Edge Design and Blueprinting**
  - Define the Unified Edge deployment blueprint (edge node count, server models, resource profiles, network topology, and connectivity layout).
  - Identify compute, storage, and networking requirements based on the customer's application and workload needs.
  - Document logical design elements including VLANs, subnets, routing, security zones, and integration points with data center or cloud environments.

- **Platform Onboarding and Systems Configuration**
  - Perform initial setup of Unified Edge servers, including BIOS, RAID/storage configuration, firmware validation, and hardware health checks.
  - Configure out-of-band management (Cisco IMC/iDRAC equivalent), system identity, and baseline security settings.

  - Onboard systems to Cisco Intersight or customer-approved management tooling for centralized visibility.

- **Network Integration and Connectivity Setup**
  - Configure network interfaces (L2/L3), port profiles, VLAN assignments, and uplinks toward campus, WAN, or data center networks.
  - Validate IP addressing, routing, gateway reachability, and security policies required for workload placement.
  - Implement optional redundancy features (LACP, routed uplinks, dual-homing) depending on the site design.

- **Virtualization / Platform Layer Bring-Up**
  - Install and configure the desired virtualization or container platform (VMware ESXi, Hyper-V, K3s/K8s, or customer-specified).
  - Create compute clusters, resource pools, data stores, and network port groups for application deployment.
  - Validate workload migration, failover, and resource utilization across Unified Edge nodes.
- **Validation**
  - Validate reachability to data center services, cloud endpoints, and operational tools.
  - Test north-south traffic flows, local breakout scenarios, and edge-to-core routing policies.
  - Verify end-to-end workload reachability for users, applications, and remote locations.
- **Knowledge Transfer and Mentoring**

## Target Audience:

This service is designed for Network Architects, Network Engineers and Administrators configuring, deploying, and managing the infrastructure.

## Prerequisites:

- Basic knowledge on  Cisco UCS, Intersight.
- Customers need to ensure that all equipment and devices are racked and stacked, cabled, and powered up prior to the kick-off.
- Customer also needs to acquire the necessary software licenses for the deployment of the infrastructure.

## Service Deliverables:

| No | Deliverable | Service Details |
|---|---|---|
| 1. | Project Kickoff | • Project Overview<br>• Solution Overview<br>• Gather Customer requirements |
| 2. | Pre-Requisite Validation | • Review/confirm hardware readiness (servers, storage, network)<br>• License validation (platform, hypervisor, tools)<br>• Network readiness (bandwidth, latency, uplinks, redundancy) |
| 3. | High Level Design | • Develop High Level Design (HLD) Document |
| 4. | Unified Edge Design & Blueprinting | • Define Unified Edge deployment blueprint (node count, server models, resource profiles)<br>• Identify compute, storage, and networking requirements<br>• Document logical design (VLANs, subnets, routing, security zones, integration points) |
| 5. | Platform Onboarding & Systems Configuration | • Perform initial server setup (BIOS, RAID, firmware, health checks)<br>• Configure out-of-band management (IMC/iDRAC), identity, and security baselines<br>• Onboard systems to Cisco Intersight or customer-approved tooling |
| 6. | Network Integration & Connectivity Setup | • Configure network interfaces (L2/L3), port profiles, VLANs, uplinks<br>• Validate IP addressing, routing, gateway reachability, and security policies<br>• Implement redundancy (LACP, routed uplinks, dual-homing) |
| 7 | Virtualization / Platform Layer Bring-Up | • Install/configure virtualization or container platform (ESXi, Hyper-V, K3s/K8s)<br>• Create clusters, resource pools, data stores, and port groups<br>• Validate workload migration, failover, and resource utilization |
| 8. | End-to-End Validation | • Validate reachability to data center, cloud, and operational services<br>• Test north-south traffic flows, routing policies, and local breakout<br>• Verify workload access for users and remote locations |
| 9. | Test and Validation | • Solution validation by running sample inputs. |
| 10. | Knowledge Transfer | • Explain how to configure and manage the deployed solution in the respective customers' environment. |