

# Advanced MPLS

Course code: SP2

The course is designed for technical specialist with practical experience with MPLS technology and applications of MPLS VPNs, who need to expand his knowledge. The course is focused to advanced L3 MPLS VPN capabilities, Inter-AS interconnection and setup, Layer 2 MPLS principles and setup. The course covers topics from basic principles to implementation on Cisco devices. It includes practical LAB exercises on real network equipment.

## Required skills

Knowledge of internetworking, TCP / IP, IP routing protocols including BGP and configuration of Cisco routers in the range of training A0/ICND and A1/ICND2, RS3/BGP/ROUTE and SP1/MPLS.

## Course outline

- QoS in MPLS networks
- MPLS Label allocation and filtering
- L2 services in the MPLS networks (Carrier Ethernet, EVC model, AToM / EoMPLS, VPLS, Hierarchical VPLS (H-VPLS))
- L2 networks interconnection (L2 redundancy in access layer, mLACP, Pseudowire Headend)
- Inter AS VPN principles and setup

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