

# Fast Convergence

Course code: SP3

This course is intended for technical personnel knowledgeable network technology solving fast convergence demands in the network infrastructure. Participants will become familiar with the problems of rapid convergence and high availability, principles and limitations of different approaches to solving this issue. Course includes practical lab exercises on real devices.

## Required skills

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

## Course outline

- Fast Convergence introduction
- Failure detection techniques (Carrier Delay, BFD, HW limitace ...)
- Fast Convergence in Layer 2 networks (Flexlink, Rapid STP, REP, G.8032)
- Fast Convergence in Layer 3 networks (IGP + EGP tuning, LFA, BGP PIC)
- Fast Convergence in MPLS (LFA, MPLS TE, MPLS TE FRR, ...)
- High Availability, HW redundancy, NSR, NSF, ...

**GOPAS Praha**  
Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved