



## IMAQLIQ PON Design Strategies (2 days)

This two-day course is designed to provide you with the knowledge and confidence to design passive optical networks—GEPON as well as GPON and 10GEPON in advance. The first day covers PON concepts, plant considerations, and the advantages and disadvantages of various PON architectures in the real world. The second day includes hands-on design exercises, round-table discussions, and a final assessment.

### Who should attend

- Engineers, planners, and network designers who want to learn how to design both GPON and GEPON passive optical networks (*for the IMAQLIQ PON OLT 2.5G and IQ-PON OLT*)
- Engineers, planners, and network designers who want an overview of PON design principles

### Prerequisites

- Knowledge of telecommunications and engineering standards

### Topics

#### Day 1

- Fiber optics technology overview
- P2P and P2MP analysis. Fundamentals of optical access network
- PON technology overview (APON, BPON, GPON, GEPON, 10GEPON, XGPON)
- Overview of converged services (data, video, IPTV, voice, etc.)
- Design considerations (point to point, local convergence point, distributed split)
- Equipment overview. IMAQLIQ PON products presentation

#### Day 2

- PON design-topology, customer mix, revenue impacts
- PON design exercise part 1 (CLI, Management issues, ONU presentation)
- PON design exercise part 2 (VLANs, DBA, IGMP, QoS, SW upgrade, etc.)
- PON design exercise part 3 (interface GbE /PON settings, ONU policy, etc.)
- PON design (actual triple play deployment)
- PON optical budget exercise
- Final assessment

ООО "ИМАКЛИК СЕРВИС" /  
IMAQLIQ SERVICE Ltd.

А 191119, Россия, г. Санкт-Петербург,  
наб. Обводного канала, 93А

93А, Obvodny Canal,  
Saint-Petersburg, Russia, 191119

T +7 (812) 325 10 85

F +7 (812) 325 10 86

E info@imaqliq.com

W [imaqliq.com](http://imaqliq.com)