



**BAREFOOT
ACADEMY**

FACTOR  GROUP

**BA-001
INTRODUCTION TO
NETWORK PROGRAMMABILITY**

2019

MARCH

05-06

**SPECIAL OFFER FOR OSN
MEET-UP PARTICIPANTS**

SCHUKINSKAYA STREET, 2, MOSCOW

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BA-001 IS A 2-DAY COURSE, DESIGNED TO INTRODUCE WIDE AUDIENCES OF DEVELOPERS, SYSTEM INTEGRATORS, ACADEMICS AND NETWORK EQUIPMENT END-USERS TO THE PRINCIPLES AND BENEFITS OF DEVICES WITH PROGRAMMABLE DATA PLANES. THE COURSE FOCUSES ON THE STATE-OF-THE-ART APPROACHES TO PROGRAMMABILITY INCLUDING P4 PROGRAMMING LANGUAGE FOR DATA PLANE PROGRAMMING, BAREFOOT TOFINOTM ASIC AND P4STUDIO SOFTWARE DEVELOPMENT ENVIRONMENT.

COURSE GOALS

UPON THE COMPLETION OF THE COURSE, THE STUDENTS WILL HAVE GAINED THE FOLLOWING SKILLS:

1. UNDERSTANDING OF THE NETWORK DEVICE ARCHITECTURE WITH THE EMPHASIS ON THE PROGRAMMABLE DATA PLANE AND CONTROL PLANE INTERFACES
2. UNDERSTANDING OF THE BASIC DATA PLANE ALGORITHMS AND DEVELOPMENT APPROACHES
3. BASIC UNDERSTANDING OF P4_16 LANGUAGE, ITS MAIN CONCEPTS AND CONSTRUCTS
4. BASIC UNDERSTANDING OF THE ARCHITECTURE OF THE TOFINOTM PROGRAMMABLE PIPELINE AND ITS MAIN RESOURCES
5. BASIC UNDERSTANDING OF THE APIS FOR MANAGING BOTH P4 OBJECTS AND FIXERD-FUNCTION COMPONENTS
6. UNDERSTANDING OF P4STUDIO SDE COMPONENTS AND THEIR ROLES IN DATA AND CONTROL PLANE DEVELOPMENT
7. UNDERSTANDING OF THE ROLE OF THE CONTROL PLANE (NETWORKS OPERATING SYSTEM) AND ITS INTERACTION WITH THE DATA PLANE

THE COURSE CAN OPTIONALLY INCLUDE A BASIC DEMONSTRATION LAB, CONDUCTED IN THE VIRTUAL SIMULATION ENVIRONMENT.

TARGET AUDIENCE

THIS COURSE IS MOST SUITABLE FOR DESIGNERS AND ARCHITECTS, TASKED WITH MAKING STRATEGIC DECISIONS IN THE AREAS OF NETWORK, TELECOMMUNICATIONS EQUIPMENT AND CONTROL SOFTWARE DESIGN AND ARCHITECTURE

PRE-REQUISITES

GENERAL UNDERSTANDING OF NETWORK AND TELECOMMUNICATIONS ARCHITECTURE AND PROTOCOLS

COURSE FEES (PER PARTICIPANT):

UNTIL 04 FEBRUARY, 2019	44 900 RUB
UNTIL 18 FEBRUARY, 2019	49 900 RUB
AFTER 18 FEBRUARY, 2019	54 900 RUB

SPECIAL OFFER FOR OSN MEET-UP PARTICIPANTS

39 000 RUB

UNTIL 11 FEBRUARY, 2019

OSN MEET-UP 2019.02

**04 MARCH 2019
18:00 - 22:00
LOCATION: TBD**