

AT&T Training Center

Information Communication Technology
practical training provided by AT&T
company as part of university tuition.

AT&T Training Center

AT&T Training center is education system developed by AT&T Global Network Services Czech Republic s.r.o and provided to university students as part of University tuition. AT&T training center provides specialized trainings in addition to CISCO CCNA and CCNP courses handled by university in present. AT&T training further extended student's theoretical knowledge and practical skills in particular information communication technology area.

At the training students get understanding of technologies used in real network environment and will be introduced to typical incidents troubleshooting as well as basic configuration of various assets. Practical examples are maintained in LAB environment on real assets as well as virtual devices. Training is focused on student's expertise skills extension allowing student to apply on technical position in IT company.

Training exam

AT&T training is finished by final exam which is divided in to theory and practical part. Theory part consists of multiple test questions from firewall area educated during the classes. Practical exam is focused on multiple firewall vendors configuration and troubleshooting. Students are evaluated based on the exam results and are provided by written feedback per each firewall area. Student receives constructive feedback of strong areas and areas for improvement. Together with feedback student obtain AT&T certificate. Successful students are eligible to get tuition credits at his/her university in information system.

Internship opportunity

Based on final exam results student can be nominated for AT&T internship program and AT&T can offer part time job for such students during summer holidays. Internship is not guaranteed and nomination fully depend on AT&T decision.

Enrollment Process

Students may enroll on one of supported modules as optional tuition subject via university information system. Students are eligible to get credits for their study if successfully pass AT&T training center exam. Each semester AT&T open one or more modules in university system in order to allow students enroll on AT&T training. Student can enroll only on one module per semester. Modules are opened along with student's interest and AT&T resources availability per each semester. Supported modules are listed below in this document.

Enrollment prerequisites

- General networking minimal on CCNA level, (TCP/IP, routing switching).
- Opened for students of 3rd up to 5th year of study.
- Will to learn new technology.
- Successfully passed qualification test.
- Based on qualification test limited group of eight students per module is selected.

Training schedule

- Study is typically handled in bi-weekly iteration with respect of possible public holidays. Exact roster is populated before each semester.
- 7 classes per semester, tuition 7 hours a day plus breaks (8:00 – 16:00).
- Final exam falls in to exam period.
- Additional troubleshooting class included in Firewall module. The class is optionally for students who are willing to practice their knowledge.
- Open LAB door – optional self-study opportunity at particular weekend when AT&T LAB will be available only for AT&T Training Center students.

AT&T Training Center modules

Firewall Technologies Practice

FW technologies practice module is intended for students possessing CCNA up to CCNP networking skills and are interested in the networking security area. The course provides an overview of firewall technologies (ASA, Check Point, Juniper) commonly used in customer environment. Educated technologies do extend students practical security skills required for junior security engineer position.

Check Point Firewall technology - Check Point training is focused on practicing of Check Point firewalls functions and futures. Course contains elementary as well as advanced techniques which are used to troubleshoot common issues arising in real firewall environment. Check Point training is designed for students willing to obtain security skills required from junior security engineers. Course partially cover topics of CCSA and CCSE certifications accepted widely across the globe.

Cisco ASA Firewall technology - Specific security course focused on Cisco ASA firewall management and implementation. Participants are following labs moderated by a mentor, starting with easy CCNA security level activities, up to CCNP security level implementation of ASA firewall with the latest OS. The course provide opportunity to students to practice Cisco ASA Firewall technology on junior security engineer level.

Juniper Firewall technology - Juniper topic covers configuration, operation, and implementation of SRX Series Services Gateways in a typical network environment. Training contains practical examples of Juniper technology

management and provides fundamental Juniper SRX knowledge and skills useful for security engineers operating across large networks designed with multiple technologies.

FW Classes are focused mainly on hands on experiences in following areas:

- Cisco ASA, Check Point, Juniper SRX security technologies overview and features, history, fundamental information.
- Overview of network attacks and protection.
- Configuration and usage of syslog, routing, anti-spoofing, access control lists, various NAT protocols over multiple security platforms.
- Troubleshooting using capturing, packet tracer and other multiplatform tools.
- IPsec VPNs configuration. Traffic optimization and acceleration. Backup, upgrade, recovery.
- High availability overview and configuration using firewall clustering.

Mobility

Mobility Provisioning Center is intended for students possessing strong networking and Unix/Linux skills and are interested in mobility network management and provisioning. The course provides an overview of mobility networks and shows AT&T's implementation of mobility network in US. Course topics are intended to improve student's skills required for junior mobility engineer position.

Fundamental networking and OS skills - First part of the course is focused on networking skills that create foundation for understanding complex mobility network concepts. Main topics will be IP networking, legacy networks – ATM, Wireline, etc. and OS skills.

GSM and UMTS technology -Classes about second and third generation mobility networks will introduce topology of mobility networks in RAN and Core part, explain algorithms used for call handling and show how handling of emergency calls works.

4G LTE - Long Term Evolution training will introduce novelty techniques that are currently used for deployment of LTE networks. This part of course will also explain Metrocells and their functions.

Mobility network management and automation - Topic about network management and automation covers operation of OSS servers to handle configuration, software and monitoring of mobility equipment as well as usage of scripting tools to maintain large quantity of mobility nodes.