ITU Centres of Excellence Network for CIS

Belarus State Academy of Communications

Face-to-face Training Course on

Cybersecurity Challenges and Solutions

Minsk, Republic of Belarus
25 – 27 June 2019

COURSE OUTLINE

COURSE DESCRIPTION

Title	Cybersecurity Challenges and Solutions
Objectives	This training course aims to introduce participants to the issues of cybercrime, the vulnerability of critical infrastructure and the role of new technologies in ensuring cybersecurity, developing standards for behaviour in cyberspace.
Dates	25-27 June 2019
Duration	3 days
Registration deadline	19 June 2019
Training fees	USD 120
Course code	19WS24288CIS-R

LEARNING OUTCOMES

Participants will obtain skills in building cybersecurity threat models and familiarize with the risk elements and characteristics of threats, the main threats to the network and methods of their neutralization, as well as with the basics of social engineering.

TARGET POPULATION

The training is intended for information security specialists, managers and specialists of multi-service network operation departments. The training will also be of interest to executives in the field of ICT, employees of regulatory bodies, representatives of service providing companies, teaching staff of ICT-specialized educational institutions.

TUTORS/INSTRUCTORS

NAMES OF TUTORS / INSTRUCTORS	CONTACT DETAILS
Sergey Polovenya	s.polovenia@gmail.com
Victor Rybak	v.ribak@bsac.by
Tatyana Trukhanovich	post@bsac.by

EVALUATION

An interrogation will be conducted on the last day of the course, during the round table. It will consist of many questions to be answered clearly. The course participant evaluation to issue a certificate upon completion of the training is based mainly on the interrogation results, however, the answers on the topics raised for discussion during the course may be also be taken into account in the assessment process.

TRAINING SCHEDULE AND CONTENTS / AGENDA

25 June 2019, Tuesday	
09:30-10:00	**Participants registration**
10:00-10:10	Opening remarks: • Ministry of Communications and Informatization of the Republic of Belarus • Belarusian State Academy of Communications (BSAC)
10:10-11:30	**Session 1: Information security of the Internet of Things (IoT). The spread of cyber threats to the industrial IoT** This session is dedicated to information security issues. It will cover the information security world trends and realities of the digital society and cyber security standards.
11:00-11:30	**Coffee break. Official photo**
11:30-13:00	**Session 1 (continued)**
13:00-14:00	**Lunch**
14:00-15:30	**Session 2: Smart Home and Internet of Things** This session is dedicated to the transformation of the existing concept of automation. I will consider the classification of the smart home types, as well as approaches to the automation market and its main rules.
15:30-16:00	**Coffee break**
16:00-17:30	**Session 2 (continued)**

26 June 2019, Wednesday	
09:30-11:00	**Session 3: Building a Threat Model** This session is dedicated to the risk analysis, estimate of risk probability and consequences. The session will consider the risk elements and threat characteristics, the main threats to the network and methods of their neutralization, phases of threat modelling, and classification of offenders.
11:00-11:30	**Coffee break**
11:30-13:00	**Session 3 (continued)**

13:00-14:00	**Lunch**
14:00-15:30	**Session 4: Social Engineering in the Networks** This session is dedicated to the social engineering models. It will consider the social engineering main and inverse model, the issues of obtaining confidential information, and opposition to social engineering.
15:30-16:00	**Coffee break**
16:00-17:30	**Session 4 (continue)**

27 June 2019, Thursday	
09:30-11:00	**Session 5: Antiphishing** This session is dedicated to the effective fight against phishing. It will consider stages of phishing, hacker intelligence methods, as well as stages of the process of protection against phishing.
11:00-11:30	**Coffee break**
11:30-13:00	**Session 5 (continued)**
13:00-14:00	**Lunch**
14:00-15:30	**Session 6: Applied technologies: machine learning, intelligent transport networks, block chain technologies** Within the framework of this session, the training participants will be familiarized with the best machine learning technologies and intelligent networks.
15:30-16:00	**Coffee break**
16:00-17:00	**Roundtable** The roundtable will be dedicated to exchange of views and experiences in the sphere of cyber security. Also, the final interrogation of the training participants will be conducted during the roundtable.
17:00-17:30	**Summarizing. Seminar closing**

METHODOLOGY

The training will include lectures with a demonstration of presentations under the guidance of an instructor, case studies, group exercises and assignments.All necessary materials will be issued by the teacher on the first day of the seminar.

COURSE COORDINATION

Course coordinator:	**ITU coordinator:**
Oleg Khodasevich Head, Department of Advanced Training, Belarusian State Academy of Communications Email: o.khodasevich@bsac.by	Farid Nakhli Programme Officer, Regional Office for CIS Region Email: farid.nakhli@itu.int

REGISTRATION AND PAYMENT

ITU Academy portal account

Registration and payment should be made online at the ITU Academy portal.
To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address: https://academy.itu.int/index.php/user/register.

Training registration

When you have an existing account or created a new account, you can register for the course online at the following link:
https://academy.itu.int/index.php/training-courses/full-catalogue/cybersecurity-challenges-and-solutions

You can also register by finding your desired course in our training catalogue https://academy.itu.int/index.php/training-courses/full-catalogue.

Payment

1. On-line payment

A training fee of USD 120 per participant is applied for this training. Payments should be made via the online system using the link mentioned above for training registration at: https://academy.itu.int/index.php/training-courses/full-catalogue/cybersecurity-challenges-and-solutions

2. Payment by bank transfer

Where it is not possible to make payment via the online system, select the option for offline payment to generate an invoice using the same link as above. Download the invoice to make a bank transfer to the ITU bank account shown below. Then send the proof of payment/copy of bank transfer slip and the invoice copy to Hcbmail@itu.int and copy the course coordinator. **All bank transaction fees must be borne by the payer**.
Failure to submit the above documents may result in the applicant not being registered for the training.

3. Group payment

Should you wish to pay for more than one participant using bank transfer and need one invoice for all of them, create an account as **Institutional Contact. Institutional Contacts** are users that represent an organization. Any student can request to be an institutional contact or to belong to any existing organization.

To do this, head to your profile page by clicking on the **"My account"** button in the user menu. At the bottom of this page you should see two buttons:

a. If you want to **become an institutional contact**, click on the "**Apply to be an Institutional Contact"** button. This will redirect you to a small form that will ask for the organization name. After you fill the name of the organization you want to represent, click on **"continue"** and a request will be created. An ITU Academy manager will manually review this request and accept or deny it accordingly.

If you want to **belong to an existing organization**, click on the **"Request to belong to an Institutional Contact"** button. This will redirect you to a small form that will ask you to select the organization you want to join from an organization list. After you select the correct organization, click on **"continue"**, a request will then be created. The Institutional Contact that represents that organization will manually accept or deny your request to join the organization.

ITU BANK ACCOUNT DETAILS:	
Name and Address of Bank:	UBS Switzerland AG Case postale 2600 CH 1211 Geneva 2 Switzerland
Beneficiary:	Union Internationale des Télécommunications
Account number:	240-C8108252.2 (USD)
Swift:	UBSWCHZH80A
IBAN	CH54 0024 0240 C810 8252 2
Amount:	USD 120
Payment Reference:	CoE-CIS 24288 -P.40594.1.05

4. Other method of payment

If due to national regulations, there are restrictions that do not allow for payment to be made using options 1 & 2 above, please contact the ITU coordinator for further assistance.