



**ITU Centre of Excellence Network for Africa  
National Computer Board / Computer Emergency Response Team of Mauritius**

**Online Training Course on  
Cyber Disaster Response: Development of Simulation Exercises  
21 – 23 April 2021**

**COURSE OUTLINE**

**COURSE DESCRIPTION**

Title	<b>Cyber Disaster Response: Development of Simulation Exercises</b>
Objectives	<p>The main objective of the course is to enable participants to develop simulation exercises that will help them build their capabilities and train them in handling cyber incidents. Other objectives include:</p> <ul style="list-style-type: none"><li>• Develop crisis management capabilities and leadership with responsible actors;</li><li>• improve the ability to interact with other actors in the crisis management system;</li><li>• increase the ability to make quick decisions and communicate situation information;</li><li>• develop the participants' ability and confidence in their own competence;</li><li>• maintain awareness of the complexity that is characteristic of crisis situations;</li><li>• examine and develop contingency plans that mirror reality;</li><li>• highlight weaknesses and strengths in resources and technology;</li><li>• develop the participants' ability and confidence.</li></ul>
Dates	<b>21 – 23 April 2021</b>
Duration	3 days
Registration deadline	16 <sup>th</sup> April 2021
Training fees	No charge
Course code	21OI26460AFR-E

## LEARNING OUTCOMES

---

Cyber security exercises are a very effective way of learning the practical aspects of information security. But designing such exercises is not an easy task. This course provides a number of steps and guidelines that should be followed when designing a cyber exercise. The steps include: defining the objectives, choosing an approach, designing network topology, creating a scenario, establishing a set of rules, choosing appropriate metrics and learning lessons.

This 3 days training course examines the key elements required to develop Cyber Disaster Response Simulation exercises. It will enable participants to increase collaboration, through greater understanding and familiarity of interaction between private and public sector and a better understanding of cyber attacks as well as the protection and defense of critical information infrastructures so that knowledge and skills for planning, implementing, and following up on cyber disasters can be improved. <sup>L</sup><sub>SEP</sub>

## TARGET POPULATION

---

- Chief Information Officers
- Chief Technical Officers
- Chief Information Security Officers
- Information Security Officers
- Security Directors
- Security Managers
- Network Engineers
- System Administrators

## TUTORS/INSTRUCTORS

---

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Dr. Kaleem Ahmed Usmani	kusmani@cert.ncb.mu
Sachindra Reechaye	sreechaye@cert.ncb.mu
Selvana Naiken Gopalla	sgopalla@cert.ncb.mu

## EVALUATION

---

Online Lecture, discussion, group work, case studies

## TRAINING SCHEDULE AND CONTENTS

Session	
<b>Day 1</b> <b>21 Apr 2021</b> <b>11am – 1pm</b> <b>(Geneva Time)</b>	<b>Exercise Preparation &amp; Planning</b> <ul style="list-style-type: none"> <li>• Initiatives and mission</li> <li>• Needs analysis – why should we have an exercise?</li> <li>• Mission Statement – Defining the assignment</li> <li>• Exercise Documentation</li> </ul>
<b>Day 2</b> <b>22 Apr 2021</b> <b>11am – 1pm</b> <b>(Geneva Time)</b>	<b>Exercise Preparation &amp; Planning (contd.)</b> <ul style="list-style-type: none"> <li>• Purpose – why should we have an exercise</li> <li>• Objectives – what we want to achieve with the exercise</li> <li>• Target group</li> <li>• Limitations – what will not be addressed in the exercise</li> <li>• Exercise types and forms</li> <li>• Time table for exercises</li> </ul>
<b>Day 3</b> <b>23 Apr 2021</b> <b>11am – 1pm</b> <b>(Geneva Time)</b>	<b>Implementation &amp; Evaluation</b> <ul style="list-style-type: none"> <li>• Procurement of Technical Infrastructure</li> <li>• Setting up of the infrastructure</li> <li>• Technical Exercise environment               <ul style="list-style-type: none"> <li>○ smaller simulation exercises with a counterplay</li> <li>○ larger simulation exercises with a counterplay</li> </ul> </li> <li>• Planning of the counterplay organisation               <ul style="list-style-type: none"> <li>○ Red team</li> <li>○ Blue team</li> </ul> </li> <li>• Technical support and communications</li> <li>• Website for exercise planning</li> <li>• Training external communication               <ul style="list-style-type: none"> <li>○ Media</li> <li>○ Public interests</li> </ul> </li> <li>• Evaluation process</li> <li>• Exam</li> </ul>

## METHODOLOGY

The training will be carried out online through the ITU Academy Platform. It will include presentations, discussion, group work, case studies and an exam.

## COURSE COORDINATION

---

<b>Course coordinator:</b> Name: Mr. Manish Lobin Email address: mlobin@cert.ncb.mu	<b>ITU coordinator:</b> Name: Emmanuel Niyikora Email address: emmanuel.niyikora@itu.int
---	--

## REGISTRATION AND PAYMENT

---

### ITU Academy portal account

Registration 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/user/register>

### Course 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/training-courses/full-catalogue/cyber-disaster-response-development-simulation-exercises> - new link to be added

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

### Payment

The training course is free of charge.