



## Training course outline

ITU and ICTP present

Title	<b>Introduction to Data Classification and Information Protection</b>
Modality	Instructor-led
Dates	1st – 28th February, 2022
Duration	4 weeks
Registration deadline	Jan 31
Training fees	USD 150
Description	Information protection requires a planned investment of digital defence systems. However, the value of data plays a crucial role in determining the level of such protection that must be accorded. This course introduces the concept of value-based classification of data, and how data categorization determines the scope and nature of protection deployed. It offers an understanding of information protection techniques applied to various categories of data used in industry, business, government, academia, and the corporate world. The course highlights real-life use cases of data classification.
Code	22O127798EUR-E

### 1. LEARNING OBJECTIVES

---

The course teaches the basic concepts of classification of data based on its value and sensitivity, and how data classification determines the extent of protection required.

### 2. LEARNING OUTCOMES

---

At the end of the course, participants will understand:

- The relationship between data, information, knowledge, intelligence, and statistics.
- The generic data classification model.
- New concepts in data classification due to COVID-induced changes in the cyberspace.
- How to protect information based on its sensitivity.
- An introduction to risk management principles as applicable to data security.

### 3. TARGET POPULATION

---

The course is designed for everyone who accesses, uses, manages, or processes any type of digital data in everyday personal, commercial or industrial use, including but not limited to, freelance computer users, bloggers, science scholars, data scientists and managers, business executives, technology students, researchers, information management officers, information technology professionals, cyber security experts, industry professionals, online marketers, eCommerce practitioners and operators, etc.



#### 4. ENTRY REQUIREMENTS

---

- Ability to read and interpret data from any digital source.
- Basic computer literacy and digital appreciation
- Fundamental knowledge of internet operations
- Ability to operate mobile, web and online digital resources

#### 5. TUTORS/INSTRUCTORS

---

Name of tutor(s)/instructor(s)	Contact details
Kenneth Okereafor, PhD	<p>(<a href="https://cyberken.ng/">https://cyberken.ng/</a>)</p> <p>Tel: +234-802-314-8494</p> <p>Email: <a href="mailto:nitelken@yahoo.com">nitelken@yahoo.com</a></p> <p><a href="https://www.researchgate.net/profile/Kenneth-Okereafor">https://www.researchgate.net/profile/Kenneth-Okereafor</a></p>

#### 6. TRAINING COURSE CONTENTS

---

#### 7. TRAINING COURSE SCHEDULE

Week / Session	Topic	Exercises and interactions
<b>Week 1</b>	Basic data concepts	<ul style="list-style-type: none"><li>• A world of data from diverse sources</li><li>• Raw data</li><li>• information</li><li>• knowledge</li><li>• intelligence</li><li>• statistics</li><li>• introduction to big data concepts and the 7V's</li><li>• end of week exercise</li></ul>
<b>Week 2</b>	Study of data classification models	<ul style="list-style-type: none"><li>• Understanding data privacy</li><li>• Implications of data leak</li><li>• Unauthorized disclosure (examples in various industries)</li><li>• Data categorization:<ul style="list-style-type: none"><li>➤ <i>common knowledge (open data)</i></li><li>➤ <i>sensitive</i></li><li>➤ <i>classified</i></li><li>➤ <i>restricted</i></li></ul></li><li>• End of week exercise</li></ul>



<b>Week 3</b>	COVID-induced changes in data classification	<ul style="list-style-type: none"><li>• Review of COVID disruptions in the cyberspace</li><li>• New concepts in data categorization</li><li>• Data protection regulations</li><li>• The new normal</li><li>• End of week exercise</li></ul>
<b>Week 4</b>	Post-COVID Information protection	<ul style="list-style-type: none"><li>• Introduction to emerging information protection techniques</li><li>• Risk management principles for information protection<ul style="list-style-type: none"><li>➤ vulnerabilities</li><li>➤ threats</li><li>➤ digital risks</li><li>➤ risk management plans</li></ul></li><li>• Summary and Conclusions</li><li>• End of course evaluation exam</li></ul>

#### **8. METHODOLOGY (Didactic approach)**

Each week's session starts with a short introductory clip, with presenter's guide. Thereafter, the week's topics are delivered as PPT or PDF presentations.

#### **9. EVALUATION AND GRADING**

End of week 1 exercise	20 marks (pass mark = 12)
End of week 2 exercise	20 marks (pass mark = 12)
End of week 3 exercise	20 marks (pass mark = 12)
End of course exam	40 marks (pass mark = 24)
Total weights	100 marks (pass mark = 60)

#### **10. TRAINING COURSE COORDINATION**

Tutor :

Name : Kenneth Okereafor, PhD

Email address: [nitelken@yahoo.com](mailto:nitelken@yahoo.com)