

# NPA CYBERSECURITY

## DATA SECURITY LEVEL 6

Week	Content	Homework	Assessment (MS Forms)
	Lesson	Worksheets	
1	<ul style="list-style-type: none"> <li>• Personal Data &amp; Social Media 4-5</li> <li>• Legal and Ethical obligations 6-8</li> </ul>	<ul style="list-style-type: none"> <li>• Task 1 -5</li> <li>• Tasks 6-8</li> </ul>	
2	<ul style="list-style-type: none"> <li>• Ethics – Tedtalk p9</li> <li>• Ethics within organisations p9</li> <li>• Companies &amp; Sectors p10 - 11</li> </ul>	<ul style="list-style-type: none"> <li>• Tasks 9</li> <li>• Task 10</li> <li>• Task 11</li> </ul>	
3	<ul style="list-style-type: none"> <li>• Security personel &amp; Roles p12-13</li> <li>• Challenges faced by different sectors p14-16</li> </ul>	<ul style="list-style-type: none"> <li>• Task 12</li> <li>• Task 13</li> </ul>	
4	<ul style="list-style-type: none"> <li>• Physical, perimeter &amp; internal network Security p17-18</li> <li>• Cyber Resilience</li> </ul>	<ul style="list-style-type: none"> <li>• Tasks 14-15</li> <li>• Task 16</li> </ul>	
5	<ul style="list-style-type: none"> <li>• Risk Management p 20-22</li> <li>• General Principles for keeping data secure p23-32</li> </ul>	<ul style="list-style-type: none"> <li>• Task 17</li> <li>• Tasks 18-24</li> </ul>	
6	<ul style="list-style-type: none"> <li>• Causes &amp; Effects of a data security breach p33-37               <ul style="list-style-type: none"> <li>○ Common causes of data security breaches p34</li> <li>○ Potential effects of data security breach on individuals p36</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Tasks 25               <ul style="list-style-type: none"> <li>○ Task 26</li> <li>○ Task 27</li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li>○ Potential Effects of Data Security breaches on organisations p37</li> </ul>			
<b>7</b>	<ul style="list-style-type: none"> <li>• Technologies and Strategies used by business to protect data <ul style="list-style-type: none"> <li>○ Types of technology used for cyber security defence: functions and risks</li> <li>○ Real life strategies used by businesses to protect customer data</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Task 28</li> <li>• Task 29</li> <li>• Task 30</li> <li>• Task 31</li> </ul>		
<b>8</b>	SOLAR Multiple Choice Assessment Practical Assessment			

## ETHICAL HACKING – LEVEL 6

Week	Content	Practical	Assessment
	Lesson	Worksheets	
<b>1</b>	<p><b><u>All of malware unit</u></b></p> <ol style="list-style-type: none"> <li>1. Viruses (pg 1 – pg 8)</li> <li>2. (Pg 8 – Pg 11)</li> </ol>	<ol style="list-style-type: none"> <li>1. Exercise 1 – Malware</li> <li>2. Exercise 2/3</li> </ol>	<p>Complete Beginner THM course</p> <p>Intro to linux 1/2/3</p>

	3. (Pg 11 – Pg 14)	3. Exercise 4 – Social Engineering		
<b>2</b>	<b><u>Protecting Computer Systems and Data</u></b> 1. (Pg 15 – Pg 18) 2. (Pg 18 – Pg 20) 3. Hacking Workshop 1	1. Exercise 5 – Biometrics 2. Exercise 6 – Cyber Resilience 3.		
<b>3</b>	<b><u>Historical &amp; Contemporary Cyber Crime</u></b> 1. Pg 21 2. Exercise 7 – Part A report 3. Exercise 7 – Part B report	1. Exercise 7 – Cyber Crime Investigation	Network Exploitation – Nmap	
<b>4</b>	<b><u>Legislation</u></b> 1. Pg 21 – Pg 22 2. Pg 22 – Pg 29 3. Pg 29 – Pg 33	1. Exercise 8 2. Exercise 9 – GDPR Compare 3. Exercise 10 – RIPA	Cryptography 1/2/3	
<b>5</b>	<b><u>Legislation</u></b> 1. Pg 33 – Pg 39 2. Finish Exercise 12/13 3. Hacking Workshop 2 – Windows XP	1. Exercise 11/12/13		
<b>6</b>	<b><u>Penetration Testing</u></b> 1. Pg 39 – Pg 42 2. Finish 14/15 3. Hacking Workshop 3 – Windows 7	1. Exercise 14/15	Windows Exploitation - metasploit	
<b>7</b>	<b><u>Assessments</u></b> 1. Multiple choice assessment 2. Practical Assessment 3. Practical Assessment			THM – Blue or Ice
<b>8</b>	1. Practical assessment 2. Practical assessment 3. Practical assessment			THM – Blue or Ice

# NPA CYBERSECURITY LEVEL 6 – DIGITAL FORENSICS

Week	Content	Worksheets	Try hack me	Assessment
1	<p>Introduction – 4 principles pg 4</p> <p>Digital Forensic Process pg 5-7</p> <ul style="list-style-type: none"> <li>• Incident</li> <li>• Investigation starts</li> </ul> <p>Digital Forensic Process pg 8-9</p> <ul style="list-style-type: none"> <li>• Computer Misuse Act</li> <li>• Regulation Investigatory Powers</li> <li>• Human Rights</li> </ul>	<p>Worksheet 1</p> <p>Quiz 1</p> <p>Quiz 2</p> <p>Worksheet 2</p>	Disk Forensics	
2	<p>Digital Forensic Process pg 10-12</p> <ul style="list-style-type: none"> <li>• Seizure by warrant</li> <li>• Seizure by voluntary surrender</li> </ul>	<p>Worksheet 3 /4 / 5</p> <p>Quiz 3</p>		

	<p>Digital Forensic Process pg 13-17</p> <ul style="list-style-type: none"> <li>Digital forensic examination</li> </ul> <p>Digital Forensic Process pg 18-19</p> <ul style="list-style-type: none"> <li>Digital forensic examination</li> </ul>	<p>Worksheet 6/7</p> <p>Worksheet 8 / 9/ 10</p> <p>Quiz 4</p> <p>Worksheet 11/12/13</p>		
<b>3</b>	<p>Digital Forensic Process pg 20 -21</p> <ul style="list-style-type: none"> <li>Reporting</li> </ul> <p>Digital Forensic Process pg 22</p> <ul style="list-style-type: none"> <li>Reporting</li> </ul> <p>Data acquisition pg 23-25</p> <ul style="list-style-type: none"> <li>Crime scene</li> </ul>	<p>Quiz 5</p> <p>Quiz 6</p> <p>Worksheet 14</p> <p>Practical 1/2/3</p>	Memory analysis	
<b>4</b>	<p>Data acquisition pg 26-29</p> <ul style="list-style-type: none"> <li>Capturing digital device</li> </ul> <p>Data acquisition pg 30 - 33</p>	<p>Practical 4/5/6</p> <p>Quiz 7</p> <p>Practical 7 /8</p>		

	<ul style="list-style-type: none"> <li>Examining digital evidence</li> </ul> <p>Data acquisition pg 34-37</p> <ul style="list-style-type: none"> <li>Examining digital evidence</li> </ul>	<p>Quiz 8</p> <p>Practical 9/10</p> <p>Quiz 9</p>		
5	<p>Analysing digital evidence pg 38-41</p> <ul style="list-style-type: none"> <li>Timeline / relationships</li> </ul> <p>Analysing digital evidence pg 38-41</p> <ul style="list-style-type: none"> <li>Network analysis</li> <li>Report findings</li> </ul>	<p>Practical 11 / 12</p> <p>Quiz 10</p>	<p>Network forensics</p>	<ul style="list-style-type: none"> <li>Start Cairo Capers</li> </ul>
6	<p>SOLAR Multiple Choice Assessment</p> <p>Practical Assessment</p>	<p>Cairo Capers assessment task</p>		