

# UNIVERSITI TEKNOLOGI MARA FACULTY OF INFORMATION MANAGEMENT

INDUSTRIAL TRAINING REPORT:
CYBERSECURITY MALAYSIA (SELANGOR)
LEVEL 7, TOWER 1, MENARA CYBER AXIS, JALAN IMPACT,
63000 CYBERJAYA, SELANGOR

SPECIAL PROJECT: PRIVACY IMPLEMENTATION
GUIDELINES: AUDITOR CHECKLIST ISO/IEC DIS 27552

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IM245 - BACHELOR OF SCIENCE (HONS.) INFORMATION SYSTEM MANAGEMENT FACULTY OF INFORMATION MANAGEMENT UNIVERSITI TEKNOLOGI MARA KELANTAN

01 FEBRUARY 2019 - 30 JUNE 2019

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FACULTY SUPERVISOR MADAM SALLIZA MD RADZI

REPORT SUBMITTED IN FULFILLMENT OF THE REQUIREMENT FOR THE INDUSTRIAL TRAINING FACULTY OF INFORMATION MANAGEMENT UNIVERSITI TEKNOLOGI MARA KELANTAN

01 FEBRUARY 2019 - 30 JUNE 2019

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2016317511

Date of submission: 04 July 2019

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#### **ABSTRACT**

Internship session is start based on the period from 1<sup>ST</sup> FEBRUARY 2019 to 30 JUNE 2019 in Information Security Management Assurance (ISMA) Department at CyberSecurity Malaysia (CSM). There are many activities and memories that the trainee experiences during the internship at CyberSecurity Malaysia (CSM). The trainee experiences in both of the CSM building, which in Seri Kembangan and new building in Cyberjaya. During internship, the trainee is exposed with the information security and privacy which is an important knowledge that every person should notice and acknowledge. Other than that, the trainee is involved with the usage and implementation of the ISO standard that related to many guidelines. procedure, policy and regulation. The trainee is acknowledging with three of the ISO that related to the security and privacy, which the trainee is assigned to conduct research regarding the standard, in understanding the requirement needed, implementation guidance and additional of the requirement needed. Thus, the trainee is required to conduct research on Industry Revolution 4.0. Industry 4.0. Internet of Thing, Cloud Computing, Big Data and Smart City. Beside the working experiences, the trainee also experiences in having a good relationship with all other department in socializing between the officemate. Other than that, the trainee also involved with every company events which the trainee is invited in joining with other employee.

Keywords: Information Security, privacy, guidelines, standard, ISO/IEC

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Praise is upon the Almighty Allah for giving me the strength, health and facility to complete this assignment in time.

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. I would like to thank my parents for their support in completing this assignment.

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## 1. CHAPTER 1 INTRODUCTION

#### 1.1. Background of the organization

Cybersecurity Malaysia is one of the organization that provide cybersecurity innovation led services, programmers and initiatives to help reduce the vulnerability of digital system and the same time strengthen Malaysia self-reliance in cyberspace. Cybersecurity Malaysia journey started with the creation of the Malaysia Computer Emergency Response Team or MyCERT on the 13th of January 1997 as a unit under MIMOS Berhad. On the 24th of January 1998, the National Information Technology Council or NITC proposed for the establishment of an agency to address emerging ICT security issues in Malaysia.

As a result, the National ICT Security & Emergency Response Centre (NISER) was created in 2001 as a department in MIMOS Berhad, and the Malaysia Computer Emergency Response Team (MyCERT) was placed under NISER. On 28 September 2005, the Cabinet decided for NISER to be spun-off from MIMOS Berhad as a separate entity under MOSTI. On 30th March 2007, NISER was registered as a not-for-profit Company Limited by Guarantee.

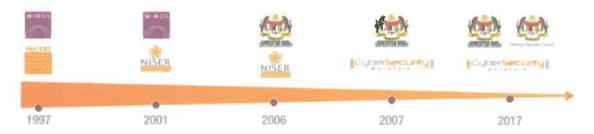


Figure 1. 1: Timeline of the development of the CyberSecurity Malaysia (CSM).

Cybersecurity Malaysia provides specialized cyber security services, which is cyber security responsive services, cyber security proactive services, outreach and capacity building strategic study and engagement and Industry and research development. In this organization have ten departments which is The Malaysian Computer Emergency Response Team (MYCERT) and Cyber 999, Digital Forensic (Cyber CSI), Malaysian Security Evaluation Facility (MySEF), Malaysian Vulnerability Assessment Centre (MyVAC), Information Security Certification Body, Security Management & Best Practices, Industry Development, Government & International Engagement, Cyber Security Research, Cyber Security Professional Development and Outreach.

CyberSecurity Malaysia (CSM) located at Seri Kembangan at The Mines Waterfront Business Park building and Sapura Group building for over 13 years at these building start from 2007 until 2019. On April, 2019 CSM officially move in to own new building at Cyberjaya, names as Cyber Axis Tower.

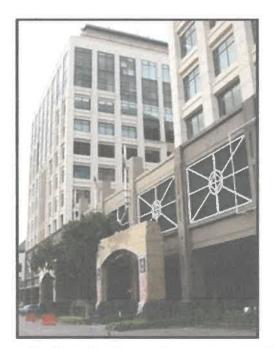


Figure 1. 3: The Mines Waterfront building, previous CSM office.



Figure 1. 4: CSM also rent SAPURA building that located beside The Mines Waterfront building.

#### Vision

Our vision is to be a globally recognized National Cyber Security Reference and Specialist Centre by 2020.

#### Mission

Our mission is to create and sustain a safer cyberspace to promote National Sustainability, Social Well-Being and Wealth Creation.

#### **Core Values**

#### Trust

By maintaining social, ethical and organisational norms, we firmly adhere to codes of acceptable conduct and professional ethical principles.

#### Impartiality

By providing consultation, advice and decision making with professionalism based on established facts and rationale, and devoid of any personal or conflict of interest and bias.

#### **Proactive**

By taking prompt action to accomplish objectives; anticipating challenges and identifying early solutions; taking action to achieve goals beyond what is required or expected.

# 1.2. Organization Structure



General Tan Sri Dato' Seri Panglima Mohd Azumi Bin Mohamed (Refired)
Chairman Board of Directors



YBhg. Dato' Ts. Dr. Haji Amirudin Bin Abdul Wahab Director / Chief Executive Officer



Dr. Subazimah Binti Drazah

Datuk Dr. Abdul Raman Bin

Director Sand



Director



Haji Suip & Kanik Bin Saniman & Kadad

Director



Puan Azizatul Yuma Binti Abmed Yusuff

Director

Figure 1. 5: Organization Chart (Board of the Directors)

# 2. CHAPTER 2 ORGANIZATION INFORMATION

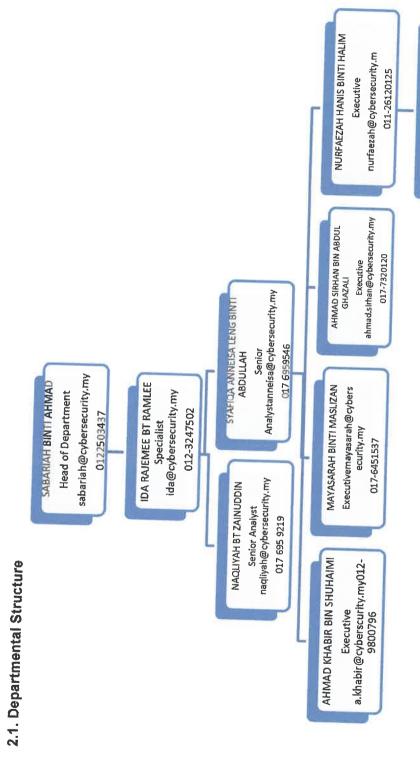


Figure 2. 1: Department Chart

adam@cybersecurity.my 018-3536876

ADAM BIN ZULKIFLI

Assistant

#### 2.2. Department Function

#### Security Management & Best Practices

The primary role of Security Management & Best Practices (SMBP) department is to drive information security management based on ISO/IEC 27001:2005 Information Security Management System (ISMS) for CyberSecurity Malaysia.

This includes planning, developing, implementing and monitoring ISMS such as information security risk management, information security awareness programed, information security management review, development of information security policies and procedures and Business Continuity Management (BCM). For BCM team, were in charge in ensuring that CSM business continuity are well planned, and perform well. BCM team also known as BCM coordinator. BCM team also perform as a consultant for big company such as Malaysian Airport Holding Berhad.

In addition, this department also develops information security guidelines and best practices for the public with a view to assist them in securing their information security environment. This department also contribute towards standardization development in areas of information security; both locally and internationally. This department is like to invite everyone to visit their published guidelines and best practices. Other than that, this department were handling the policy for internal of the CSM, which this department were in charge in ensuring that CSM are fully utilized and implement the ISMS policy and procedure. Thus, SMBP will conduct the internal audit for CSM. This team also known as ISMS driver which is Information Security management for an organization security management system (ISMS) standard. Thus, this department also involved in managing Information Security Governance, Risk and Compliance.

While, there are also a team for Applied Research for Security Management & Resilience Services and Joint effort with National Security Council to deliver annual National Cyber Drill Exercise that known as (X-MAYA). Participate in standard development for information security at national and international levels. This department is also entrusted to deliver trainings and awareness talks related to ISMS to external organizations. In the early of the February, this department changes their name from Security Management Best Practice (SMBP) into Information Security Management Assurances (ISMA).



Figure 2. 2: Information Security Management Assurances Department

## 3. CHAPTER 3 INDUSTRIAL TRAINING ACTIVITIES

- 3.1. Training Activities
- 3.1.1. Ice Breaking
- 3.1.2. Research

The main task and responsibilities of the trainee is research, which the trainee are allocated for research team under Information Security Management Assurances (ISMA). The trainee is required to conduct research which with the topic given by the team leader. The research is conduct by method of review the previous research paper. There are few topics given by the team leader that cover on the security and privacy and the current issues related to the advancement of the technology.

#### 3.1.2.1. Industry 4.0

Industrial Revolution 4<sup>th</sup> is a total transformation of all industries' sectors from primary, secondary, tertiary, and Quaternary sector. While, from the secondary sector, from German Government's strategic initiative which to transform the secondary industry into modernized cybernetic based manufacturing and production system that are efficient and more cost effective. To establish Germany as a lead market and provider of advanced manufacturing solutions, which known as Smart Manufacturing and Industry Internet of Things.

Construent Behaviour

Gegenation

General Economic Order

Competitions

Final Indianation Advancement

MRIR Milangian Peterology Straingir Dalest (NTICs) Interview

**Industry 4.0 Transformation Drivers** 

Figure 3. 1: Industry 4.0 chart

Based on the Malaysia Industry 4.0 stated that at the heart of Industry 4.0 is a set of rapidly evolving and converging technologies. These are pushing the boundaries of what can be manufactured through additive manufacturing and advanced materials. These technologies are enabling richer insights through big data analytics. They are enhancing human capacity through artificial intelligence and autonomous robots. These greater efficiencies changing the traditional manufacturing system production relationships between suppliers, producers, and customers as well as between humans and machines.

#### 3.1.2.2. Big Data

Increasingly big data techniques are being applied in manufacturing industries to improve customer experience and product quality, realise energy efficiencies, and conduct predictive maintenance. It is now possible to collect masses of data from several different sources to direct decisions that anticipate product or equipment failure.

#### 3.1.2.3. Cloud Computing

Cloud computing is a computing paradigm, where a large pool of systems is connected in private or public networks, to provide dynamically scalable infrastructure for application, data and file storage. With the advent of the technology, the cost of computation, application hosting, content storage and delivery is reduced significantly. Cloud computing is a practical approach to experience direct cost benefits and it has the potential to transform a data center from a capital-intensive set up to a variable priced environment. There are three services offered for cloud computing which is:

- 1. Software as a Service (SaaS:
- 2. Platform as a Service (Paas)
- 3. Infrastructure as a Service (laas)

#### 3.1.2.4. Smart City

Smart City is the technology which implemented towards the needs of the city.

Smart City nowadays be applied to the facilities in the city such as Traffic Light, and Streetlight that already applied at the Malaysia.

#### 3,1,2,5, Artificial Intelligent

Al is a concept that is made up of numerous subfields such as machine learning, which focuses on the development of programme that can teach themselves to learn, understand, reason, plan, and act when exposed to new data in the right quantities. Al technology will supplement the smart factory towards networked factory, in which data from supply chains, design teams, production lines and quality control are linked to form a highly integrated and intelligent engine.

#### 3,1,2,6, Information Privacy and Information Security

Information privacy is currently regarded as an element of information security processes, the actual coverage of information privacy in technical security standards of all layers will be now explored. Through this analysis the need for

information privacy guidelines, in reference to the above layers, is highlighted.

Security must consist of CIA, which is Confidential, Integrity and Availability

#### 3.1.3. Aviation Risk, Threat and Challenges

For the cyber security in aviation sector which is airport that the risks are frequently changing due to the new vulnerabilities and threat that may evolve and affect. This happened because it is being parallel with the advancement and changing of the technology implementation. In aviation sector, malicious cyber-threats that may influence and affect the operational efficiency of smart airports in aviation sector, that are equipped with IoT applications, are developed and analysed.

#### 3.1.4. Auditor Checklist

The trainee is given a task which to acknowledged and understood ISO standard that related to Privacy. The type of ISO that related to privacy and security which focusing on the Personal Identifiable Information (PII). The trainees required to review and acknowledge ISO/IEC 27001, ISO/IEC 27002, ISO/IEC DIS 27552, and ISO/IEC 29100. Each of the ISO has related issues and concept which to complement each other. To develop the checklist, the trainee needs to conduct research related to the industry processing data. The checklist is consisting of the clause, sub clause, information document references and also the supportive question which to assist the auditor.

There are five clause allocated for that standard, which this standard defines additional requirements and provides guidance for the protection of privacy as potentially affected by the processing of PII, enabling the organizations' overall Management System to be extended to cover both the general requirements for information security which known as Information Security Management System (ISMS) and the more specific requirements for PII protection, both together establish a Privacy Information Management System (PIMS). These additional requirements and guidance are written in such a way that they are practically usable for PII protection by organizations of all sizes and cultural environments.

All of the checklist is completed by five months of the internship, which started from February until June. The checklist is regularly monitored by the team leader and head of the department. There are few meetings conducted which to fulfil the needs of the checklist, with team leader, assist team leader and head of the department. The trainee is required to present the task performed, which to update to head of the department regarding the checklist assessment.



Figure 3. 2: Auditor Checklist Sheet in Microsoft Excel

#### 3.1.5. Develop Framework

The trainee is assigned to develop framework for three sector that focus on Healthcare Sector, Financial Sector, and Telecommunication Sector. For every sector, deep research must be conduct which to find out the flow of the Personal Identifiable Information (PII) of every process acquired. The trainee needs to conduct research on these three sectors that focus PII of the principles and how the data are distributed and whose are responsible person that can accessed the PII. To develop the framework, there are many changes occur which to produce a good framework that are used as a solid industry processes.

#### 3.1.5.1. Healthcare Sector

There are many parties involved the managing and using the data or PII of the principles. The purposed of using the PII instead for the medical purposed is for the research purposed conduct by the Ministry of Health of Malaysia.

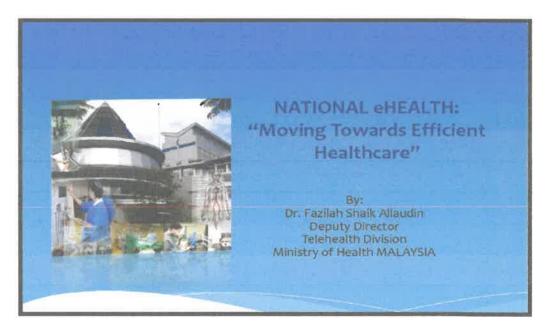


Figure 3. 3: Find relevant references to develop framework from National eHealth of Malaysia.

#### 3.1.5.2. Financial Sector

For financial sector, the PII of the principle must securely protected by the PII controller which known as bank organization. The PII of the principle in the financial sector are frequently breach due to the unresponsive action taken by the unauthorised person, which for the purpose of marketing, selling data and many more. Other than that, financial sector is the sector that highly risk, and threaten for the scenario of breaching and exposing of the PII and sensitive data.

#### PART B POLICY REQUIREMENTS

#### 8 AGENT BANKING SERVICES

- 6.1 Agent banking shall be conducted in unserved areas in Malaysia only. Unserved areas are defined as mukims with population of at least 2,000 without any access point (i.e. bank branches, FI's mobile units or Pos Malaysia agents) to deposit and withdrawal services, as listed in Appendix I. Any current agency arrangement established under the SBS circular which is not in unserved areas may continue to be in existence, but are subject to other requirements stipulated in the Guidelines.
- 6.2 Banking services that agents may provide on behalf of FIs under the Guidelines are as follows:
  - Accepting deposits;
  - ii. Facilitating withdrawal of funds by customers;
  - iii. Facilitating fund transfers;
  - iv. Receiving loan/financing payments; and
  - v. Facilitating bill payments by customers.

Figure 3. 4: Financial Sector relevant references from Banking Policy Requirement to support the framework

#### 3.1.5.3. Telecommunication Sector

For the Telco Sector, that more focusing on the communication line such as Maxis, Celcom and Digi. This sector are also as part of the highly risk and threaten of the data, PII and sensitive data breaches and exposing. Which this sector dealing with many third parties and agent.

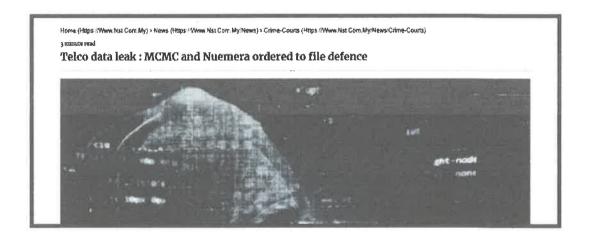


Figure 3. 5: Find out new issues regarding Telecommunication Sector.

#### 3.1.6. Comparative Analysis

Each of the research conduct on every of the topic assigned, the trainee are required to developed comparative analysis which by comparing each of the result of the research paper, by comparing every paper result. The comparative analysis must be performed in the Microsoft Excel, which is easier for the trainee to presenting to the head of the department, team leader and assist team leader. Every research conducted must be shared with the team, which is the the trainee and the colleague exchanging opinion, information and knowledge based on the finding of the research.

Standard/	Principles		In dustry Environment	Responsible
Framework				
APEC: Privacy Framework 2005	Preventing Harm Notice Collection Limitation Uses of Personal Information Choice Integrity of Personal Information Security Safeguard Access and Correction Accountability	93	Focus on common privacy issues and the impact of privacy issues upon the way legitimate businesses are conducted. It does so by highlighting the reasonable expectations of the modern consumer that businesses will recognize their privacy interests in a way that is consistent with the Principles outlined in this Framework.	means a person or organization
The Software Alliance BSA Privacy Framework	Transparency Purpose Specification Informed Choice Data Quality Consumer Control Security Facilitating Data use for legitimate Business Interest Accountability Legal Compliance & Enforcement International International	10	Transparency of personal data collection and use; enable and respect informed choices by providing governance over that collection and use; provide consumers with control over their personal data; provide robust security; and promote the use of data for legitimate business purposes.	

Figure 3. 6: Example of Comparative Analysis for standard of Privacy

	NAME OF THE OWNER	Date See of Personal Date	Purpose for the entertion	DESCRIPTION OF PERSONS AND
	Mame, NRIC, passport or other identification number, telephone number(s), malling address, email	When you submit any form, including but not limited to application forms or other forms	Responding to, processing and handling your complaints, queries, requests, feedback and suggestions	<ol> <li>Companies providing services relating to insurance and/or reinsurance</li> </ol>
	address, transactional data and any other information relating to any individuals which you have provided	relating to any of our products or services or any investments which you purchase through the Companies	2. Verifying your identity and customer due diligence	2. Trustees, attorneys and asset managers appointed by you to manage your account
	us in any forms you may have			3.Agents, contractors, vendors, installers, or
tank Of Singapore	submitted	When you enter into any agreement or provide other documentation or information in	Managing the administrative and business operations of the Companies and complying with	third party service providers who provide administrative or operational services
		respect of your interactions with us, or when you use our services	internal policies and procedures (including but not limited to	4. Credit reporting agencies
		3. When you interact with our staff,	facilitating business continuity planning	5. Debt collection agencies
		including relationship managers and their assistants, example via telaphone calls (which may be recorded), letters, fax, face-to-face		<ol> <li>Corporate service providers or lawyers, where appointed by you</li> </ol>
	Fernand Sec.	Daller Steen of Participations	Support NOW unleaded	Distance of account their
	Personal Information" means information that can personally identify an individual, such as name, address, email address, phone	Collect Personal information and Non- Personal information through the Website, including information you provide volunterly, such as:	1.Respond to your inquiries and process your request for services, products, or information 2.Develop, Improve, or approve new	<ol> <li>To another business entity in the event of a merger, restructuring, acquisition, any other sale or transfer of our assets or liabilities, or any change in ownership control</li> </ol>

Figure 3. 7: Comparative Analysis of management of PII in Banking Sector

#### 3.1.7. Moving to New Building

The trainee is required to help department to prepare for the moving out to new building until 17 April. Through the process of moving, the trainee also learn about the record management and filing on how to manage record for moving out. Thus, to classify the record according to the boxes allocated. Other than that, the trainee also learns new experience in appraisal the record, destruction, and disposal.

#### 3.1.7.1. Appraise of The Record/Files

The trainee is required to appraised the record based on the date of the publication by referring to the ISMS driver which known as Ms Hanes. She is in changes for the moving out for our department.

#### 3.1.7.2. Destruction and Disposal Of The Record

The trainee helps the ISMS driver in destructing the record by using the shredding machines. Before shredding the record, the record must be put into the green container before shredding the records.



Figure 3. 8: Put record that need to disposed into green container

#### 3.1.7.3. Transferring of The Boxes

The trainee also helped in transferring the records from the selves to the boxes given by the third party that supplying the boxes, wrapping and deliver the boxes to new building. There are three different boxes given by the SABALI holding, which is organization that handling the delivering the boxes. One boxes is for confidential box, personal box and moving record box, which the size is more bigger than other two boxes.



Figure 3. 9: Transferring the record in the box

#### 3.1.7.4. Labelling The Boxes

The trainee also in change in labelling the boxes which is to easier for the SABALI Holding in sorting the boxes for each of the department because to avoid from misplace of the boxes. Other than that, for easier for the ISMS driver in noticing which boxes are department owned.



Figure 3, 10: The boxes with the label



Figure 3. 11: The trainee while labeliing the boxes

#### 3.1.8. Data Transferring

The trainee help other team in converting data from the questionnaire conducted by the ISMS driver towards third agency. The trainee also need to converting the data into the excel format, which is easy for the ISMS to calculate the risk and other related processes. Other than that, the trainee also help in calculating the respondent based on the position of the respondent.

#### 3.1.9. Open New Files

The trainee also help ISMS driver in opening new files regarding the ISMS assessment which is the file that related to the ISMS policy, procedure and requirement followed by the internal of the organization. The trainee is assigned which to labeling the files, by using CSM formatting of files, and write up the description of the files into files paper document.

#### 3.1.10. Charity

The program to do charity which to donate to orphanage was planned over 2 weeks before the event. This charity collected the donation from the employees which by donating cloth, money, beg, shoes, and many more. The entire items are packed neatly and clean. The donation given and selected in a good condition.

The trainee helps packing the item and managed the collection regarding the classification number of each box. Over 40 boxes are managed to be collect for this charity, which completed with all of item. Two day before the event held, the trainee helps the project manager in handling the item. During the event held, the trainee help other employees with carrying the boxes, served the "Orphan" family and shared on giving "Duit Raya" to them.



Figure 3. 12: The orphan house at Kanchong Darat, Selangor



Figure 3. 13: Get to know them more closely



Figure 3, 14: Project Manager hands over the donation for Harl Raya AidiiFitri to the owner of the orphanage.



Figure 3. 15: Photo Session with them before leaving off to next orphanage.



Figure 3. 16: Next orphanage located at Semenyih.



Figure 3. 17: Photo session with owner of the orphanage.

# 3.1.11. Knowledge Sharing

On 27th March the trainee is performed a knowledge sharing which is the activities that are conducted every Wednesday, anyone from the company can share any experience, knowledge and information during this session. There are two to three people are allowed to share during in one week. While, during the trainee sharing session, the trainee shared about the experienced while going to Korea on November 2018. Other than that, the trainee also shared about the tips and tricks when going to Korea, which may help others if planning going to that country. Every Wednesday, the trainee is attending the knowledge sharing session which is to get to know new information, and knowledge.



Figure 3. 18: Knowledge Management @ Library at new building at Menara Cyber Axis, here is the place for knowledge sharing every Wednesday

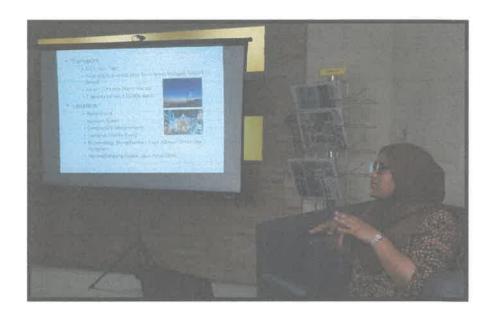


Figure 3. 19: While sharing with them about experiences to Korea



Figure 3. 20: Knowledge Management @ Library in The Mines Building



Figure 3. 21: The sharer received appreciation souvenir from Knowledge Management Department

3.1.12. Gathering

3.1.12.1. Potluck

#### 3.1.12.1.1. Potluck with Level 4 And Level 6

At end of the months, every department located at Level 4 is making Potluck session which to strengthen relationship and friendship between the colleagues. After moving to new building the tradition are still continuing until now. Which by transferring to new building the Potluck with start with reciting Surah Yassin together with other department.



Figure 3. 22: Potluck with level 4 at The Mines, which consist of more than 4 department.

# 3.1.12.1.2. Potluck with Division

Before moving to new building, division of the trainee department which known as Cyber Security Proactive Services Division conducting Potluck which to celebrate new building and celebrate previous memories at previous building.



Figure 3. 23: Potluck with all of division with Vice President

# 3.1.12.2. Feast of Hari Raya

#### 3.1.12.2.1. Kementerian Komunikasi dan Multimedia

Attended to the banquet of Hari Raya which conducted by Kementerian Komunikasi dan Multimedia (KKM) at PICC Putrajaya. CyberSecurity Malaysia is an agency under this ministry was invited to this ceremony. There are many activities during the event. Each of the agency must contributed a dishes, which CyberSecurity Malaysia provided a desert such as Pisang Cheese and Keledek Cheese.



Figure 3. 24: Sir Gobind Singh Deo came to CyberSecurity Malaysia booth



Figure 3. 25: Sir Gobind try our desert provided



Figure 3. 26: With CSM staff at front of the booth



Figure 3. 27: With person in charge of the booth from Outreach Department

# 3.1.12.2.2. Menara Cyber Axis

On the last day of the internship, Menara Cyber Axis is conducting banquet of Hari Raya which with all the department, and also with other organization that allocated in a same building, such as Nacsa, Jabatan Standard Malaysia and MyNIC Malaysia. There are many attractions that facilitating for the employee in Menara Cyber Axis.



Figure 3. 28: With Vice President Dr Masliana and all members of department



Figure 3. 29: With other colleague of CSM, such as good memories for the trainee



Figure 3. 30: With close friend at CSM

# 3.1.13. Timelines

Table 3. 1: Timeframe for all of the activities and task of the trainee.

Ch			4			-		(	ω					2					>			
Auditor Checklist Implementation Guidance ISO/IEC DIS 27552 Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management — Requirements and guidelines	Develop paper (IEEE format)	Conduct Research (previous research paper)	Research Paper	Artificial Intelligence , ETC	Big Data	Cloud Computing     Cloud Computing	Industry Revolution     Industry Revolution	Industry Devolution 4.0	Research Conduct	(Microsoft Office Visio)	Design	(Financial sector, Telecommunication Sector, and Healthcare Sector)	• Research	Develop Framework	Review ISO/IEC 27002	Review ISO/IEC 27001	Review ISO/IEC 27552	Review ISO/IEC 29100	Research and Review Concept of Security & Privacy			TASK & ACTIVITIES
									- Open and the second s			50/100%	E077.000							3 -1 -2 -3 -4 -4 -5 -1 -2 -5 -2 -5 -2 -5 -2 -5 -2 -5 -2 -5 -2 -5 -5 -2 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	FEBRUARY MARCH	
80/100%			70/100%		%	100	50/										700/100%			8 5 1 2 2 1 2 2 3 0 7 7	APRIL MAY	
																				3 1 1 2	JUNE	

### 3.2. Special Project

#### 3.2.1. Purpose of Project

The purpose of this document is to provide an implementation framework for ISO/IEC 27552. ISO/IEC 27552 is a newly released standard and an extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management that focus on requirement and guidelines. This framework will assist organizations from various sectors to proficiently implement the ISO/IEC 27552 at their organizations.

#### 3.2.2. Overview on ISO/IEC 27552

#### 3.2.2.1. Introduction to Privacy

Based on the ISO/IEC 29100, this standard is published which to enhance the existing of the security standard by adding a focus that relevant to the processing of privacy. Thus, in this standard, there are privacy framework generated which to serve as a basis for privacy standardization initiatives which used for controlling the privacy for outsourced data processes and acknowledge about the privacy risk assessment.

Other than that, this standard which can be used as technical references for organization and auditor in evaluating the architecture of privacy in the organization. Privacy safeguarding requirement help organization in specify the privacy terminology which help organization to familiar with the concept of privacy. Other than that, this requirement also defines the actor and roles of privacy in processing the personal identifiable information. Thus, primary is describing the privacy safeguarding requirement which can assist the organization in effective implementation of privacy by referring to the privacy principles.

While ISO/IEC DIS 27552, this standard provides guidance for the protection of the privacy which enables the organization management system that cover on general and specific requirement for personal identifiable information (PII) protection. After that, this standard also consists of additional requirements and guidance that usable for protection of the PII by all types and size of organizations. After that, this standard focuses on Privacy Information Management System (PIMS). PIMS is information security management system which addresses the protection of privacy as potentially affected by the processing of PII.

Information privacy is an individual's right to control the acquisition, uses, or disclosures of his or her identifiable health data [1]. According to [2], stated that privacy concerns the protection of individuals' personal information from the illegal disclosure and use by third malicious parties and it is directly related to the individual's online behavior and privacy. There are few standards that cover on a privacy implementation which is ISO/IEC 27552, and ISO/IEC 29100.

To conclude, privacy is personal information related to the owner of the data which can be exposed with the consent of the owner for the specific purpose. Privacy data is data that own by the owner which describe, identifiable and define the criteria and concept of the ownership. Privacy must be protected from getting access, expose and breach to public. The valuable data must be secure by individual and organization either for personal data privacy or others data privacy according to privacy policy of an organization.

## 3.2.2.2. Context of Privacy

There are three actors used in privacy concept which is to refer to the person involvement in the process.

#### 1. Pll Principle

Personal Identifiable Information (PII) Principle is a natural person to whom the personally identifiable information (PII) relates to, which is the owner of the data or information it is.

#### 2. PII Control

Personal Identifiable Information (PII) Controller is privacy stakeholder that determines the purposes and means for processing personally identifiable information (PII) other than natural persons who use data for personal purposes. Which mean, the organization that holds and collects the data of the PII principle for the purpose of business and transaction.

## 3. Pli Processor

Personal Identifiable Information (PII) Processor is a privacy stakeholder that processes personally identifiable information (PII) on behalf of and in accordance with the instructions of a PII controller. PII processor is the person or organizations that process the user PII on the behalf of the PII Controller with authority given by PII Controller.

**Table 2** below shows the summary of the context, content, element, which covered in the standard of the privacy used to develop the implementation.

OUR SECTOMENTS	Four: Specifies requirements and provides guidangs for essablishing controller impressing a Privacy Information Management System (PAIS) (2016.0.1700) for privacy management within the co	udampe ageme	intlementing, maintaining and 261 I to the form of an extension to 264 ment of the organization.	Secue Commonity	Fezue: Common privacy terminalogy, defining the actors and dails toll soliguanding tequentments; and referencing known privacy principles	the acto	Fexue: Common setumo terminology, defining the action and their role in oricessing Fit describing privacy soliguanding requestions, and referencing known privacy principles.
Extension	s ISONEC 27803		c 150/fECZ7032	Element.	Actoris and Rofes	Ē AAA	Personal lideralisate internasion III Precipies PU Carastier NI Processor
	Requirement  Contest of the organization  Leadenskip  Planning  Support  Cutetraion  Performance evaluation  Indirectorate	A AAAAAAAAAA	Guidelines Information Security Polities Organization Info. Security Human Resource Security Asset management Access cotton Physical and environment security Operation accutation, development, and Maintenance Supplier relationality Information Security intelligent Management Information Security Intelligent Information Security Intelligent Information Security Intelligent Information Security Intelligent Compliants Compliants		meraction	G. G.	Poss the flows of Pt strong the Pt principal, Pil controller Pil processor and a third party and thee roles.
Adhitonsi	s PH Controller		o Pit Processor		Recognizing PH	AAA	denotifer into: Liviad is PII Principles Pseudonymon dara Mezadana Unsolidad PII Bensilve PII
	Conditions for collection and processing Collection as PH Prescriptor Privacy design and by privacy detault PH stratey and design and disclose	AAA	Conditions for collection and processing Obligations to Pit principles. Privacy by design and drivacy by default		Privacy Baleguarding Requirement	AAAA	Legal and regulatory factors Contractual factors Business factors Other factor :
					Pokacy Policies	A	The term "privacy gollicy" is often used to refer to both internal and exemal priocy policies.
					Privacy Contral	Α	Organizations should identify and implement unwacy controls to need the privacy safeguanding requirements sometime by the

### 3.2.2.3. Importance of Privacy Protection

Based on the previous research paper [3] stated that the main motive to protect personal information or to selectively disclose that information is to avoid conflict. Which mean that, personal data that related to the person must be protected from unauthorized user because to prevent from getting access by irresponsible person that could misuse the data for other purpose that led to be more conflict and critical problem. Other than that, privacy is important for many different reasons which is for the purpose of solitude, autonomy, emotional release, self-evaluation, limited and protected communication (Westin, 1970), the reduction of personal distress (Newell, 1994), and the need for intimacy and psychological respite and the desire for protection from social influence and control (Margulis, 2003).

Furthermore, data privacy must be protected from any unauthorized user, because with the data receive irresponsible person could misuse the data and exposed the data to other people by selling the personal data for the purpose of business marketing or criminal matters. Other than that, privacy must be securely protected by the organization from getting distributed and breach. Privacy data is personal data that cannot be displayed to the public and sharing are based on the consent of the personally identifiable information (PII) principles.

In conclusion, privacy is very important to all organization to make sure that all personally identifiable information (PII) is protected well. Nowadays, everyone should concern and acknowledge the importance of privacy which to ensure that they can manage their information properly and to avoid from share their personal information to an unauthorized person.

## 3.2.2.4. Framework Implementation Guidance

#### 3.2.2.4.1. Healthcare Sector

Healthcare sector is organization or company that facilitates provision of healthcare to patients. Healthcare sector provide goods and services to patients relating to the health care and medical insurance. Other than that, healthcare also provides medical device manufacturers and medical equipment or drugs. In healthcare sector, in processing and facilitate patients, information privacy of the patients are needed and used.

According [4] to stated that informational privacy is an important principle in health care. It supports patients' dignity, self-determination, and patient safety. Informational privacy concerns information related to patient's health, how it should be protected, and who has the right to access it. Informational privacy is defined as the patient's right to decide how, when, and how much information they are willing to share with another person14 or in the health care organization.

For the Healthcare sector, the organizations possess two types of data to be kept by them such as PII data and sensitive data. PII is Personal Identifiable Information which relates to the owner of the data or information that is own by the PII principal. While, sensitive data in the context of healthcare is the medical information, medical result and other most intimate sphere, or that might have a significant impact on the PII principal. Both data should be protected from being exposed or breached.

This is due to the personal data that could not be shared with others or unauthorized users which possibly may use the data for the criminal purposes and sabotages. For example, sensitive data of the well-known person such as Minister, Chairman, and other important person should be protected and secured

from unauthorized person because these kind of person may have a various competitor or enemy that have a bad intention towards them. Below is the flow of PII in healthcare sector which show on how the flow of PII are distributed and managed with who is responsible person involved in the used on PII.

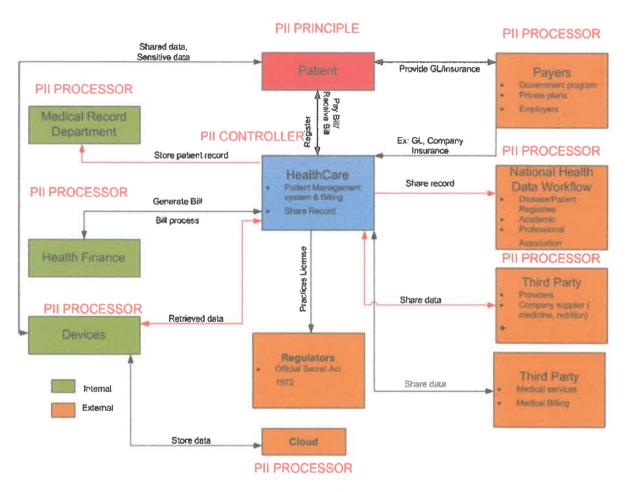


Figure 3. 31: Healthcare data framework, by showing the flow of PII.

Table 3. 3: Actors and Data type applied for Healthcare Sector.

PII Principle	Patient
Pil Controller	Hospital/Clinic
Pil Processor	Third Party/Agent/ National Health Data/ Devices/ Payer
Sensitive Data	The flow of sensitive data can be seen on the arrow in red color which to represent sensitive data that deliver from one actor to another actor.
	<ol> <li>Sensitive data that consist in healthcare sector is report of the health of the principles or known basically as patients. Sensitive data consist of data that represent the condition of the patient currently.</li> <li>Sensitive data that are used, kept and stored by internal actor which as PII Processor:         <ul> <li>Medical record department</li> </ul> </li> </ol>
	Authority given by the PII controller to processes and store the data from getting access by unauthorized person. Medical record department stored and managed record efficiently. Besides that, medical record department also managed electronic medical record. Thus, ensuring that the records of data are complete, accurate and available to authorized personnel only.
	Devices
	Nowadays with the advancement of the technology on healthcare sector, health data can be access using technology, so devices is one of the sources used. Devices store sensitive data through the data recorded.
	Sensitive data also can be shared with National Health Dataflow which for the overall statistic of the national healthcare report. Thus, for the purpose research and experience towards new diseases.
	4. Other than that, PII processor also used PII data of the principles with the consent of the PII principles and PII controller for the purpose based on the processes applied. For example, through PII processor called as third party involved with healthcare company such as medicine supplier and provider. Use data PII for the purpose of research on improvement of the quality
PII	<ol> <li>PII are collected by the PII controller which is to identify and notify the PII principles existences.</li> <li>Third party that supply medical services and medical billing are required PII of the patient which to provide service for payment, facilities, and equipment,</li> </ol>

## 3.2.2.4.2. Banking Sector

Banking sector is an organization or companies that provide services for financial management and financial assets which handle:

- 1. Cash
- 2. Credit
- 3. Saving
- 4. Loan
- 5. Other financial transaction.

Bank is an organization that can be trusted which is a safe place to store money and credit without doubtful and hesitate. Other than that, banking also provide loans services which include home mortgages, car loans, business loans, and any other related loans.

Banking sector is one of the popular sectors that handle privacy of personal data. Banks and other financial institutions managed a large volume of sensitive information such as account number, pin number and massive amount of transaction. Customer information is growing from day to day and banking sector need to handle that information properly and to ensure that information is not being misuse by unauthorized person or lost. This sector has three actors along with their roles of PII which is PII principal, PII processor and PII controller. PII principal for this sector is customers that register to use the bank services.

All information provided by PII principal is important and need to be stored carefully. Examples of information provided by PII principal are name, Identification Card (IC) number, address, phone number etc. However, PII principal also provide the sensitive data such as pin number and account bank.

As we know, all banks and financial institutions have their own privacy policy to ensure that the personal data shall not be shared without getting the permission from the data owner. Therefore, the customer must read and clearly understand the policy properly before sign any of the documents given to them. Below are the flow of PII in banking sector which show on how the flow of PII are distributed and managed with who is responsible on used it.

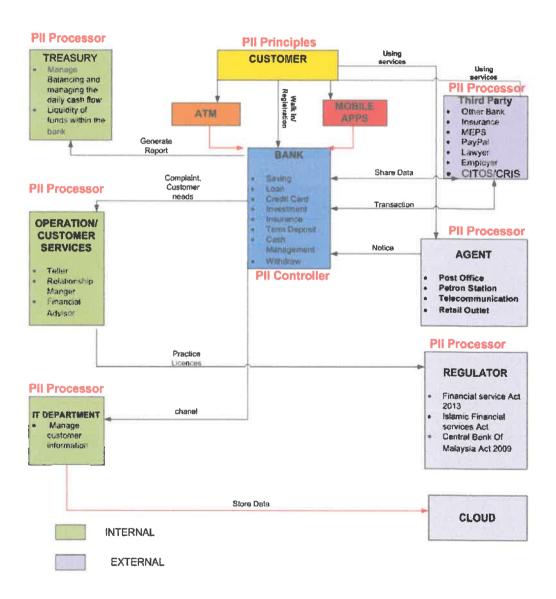


Figure 3. 32: Financial sector data framework, by showing the flow of PII.

Table 3. 4: Actors and Data type applied for Banking Sector.

PII Principle	Customer
Pll Controller	Bank
PII Processor	Third Party/Agent/ Regulator/ Cloud/ It Department/ Operation/Customer Services/ Treasury
Sensitive Data	The flow of sensitive data is through the red line which to represent sensitive data used in banking sector.
	Sensitive data that used, shared and consist in banking sector is the data that related to any transaction such as:     Pin number
	Pin number     Account bank number.
	Amount of money,
	Agreement of loan
	Any data that related to the account bank of principles.
	Data of the transaction performed by the principles
	While, from mobile application sensitive data consist of:      Description of the leg in appropriate the leg
	<ul> <li>Password of the log in account</li> <li>Username of the principles used while log in into the application,</li> </ul>
	Updates from the transaction performed.
	3. After that, sensitive data that can be access by PII processor which is internal department in organization itself known as Information Technology Department. Sensitive data stored at IT department which is all of the history of transaction through technology are managed by IT department and the sensitive data will be recorded and stored in Cloud (cloud also is one of the Third Party Services Provider) which for the purposed of storage, and backup.
PII	PII Processor: External party that can access PII:
	Third Party     Third Party that provides services related to the banking sector such as Interbank, MEPS, PAYPAL, CTOS, CCRIS and as stated above. This is because the third party hold user PII while the PII principles used their services and keep it as history for the purpose of evidences.
	Agent     Access PII of principle that also provide financial services on its behalf such as through telecommunication, Retail Outlet and Petrol Station. For example, using Post Office services to withdraw money from ASB Bank, or to deposit money to Tabung Haji account. The
	agents must at a minimum or basic services only which to provide the services of accepting deposits and conducting withdrawals. Thus, cannot provide main services that bank are serving.  These is the services that agent may provide on behalf of Financial Institutions under the Guidelines [5] are as follows:
	ii. Facilitating withdrawal of funds by customers;
	iii. Facilitating fund transfers;
	iv. Receiving loan/financing payments; and
	v. Facilitating bill payments by customers.

## 3.2.2.5. Implementation Guidance

Privacy Guidelines: Auditor Checklist ISO/IEC DIS 27552 which extensions of ISO/IEC 27001 and ISO/IEC 27002 that focus on privacy and Personal Identifiable Information (PII). The purpose of this project which to assist auditor during auditing process in guiding them on planning, and implementing of the standard during the internal auditing that can ensure a consistent audit approach. Furthermore, which to assist the auditing process becoming more systematic and in a comprehensive manner which ensures that audit scopes are being followed and perform better during the auditing process. Other than that, which to assist in providing impartial opinions and assessments of company records, procedures and processes. Thus, with this auditor checklist the result could be in an adequate proper evidence and documentation.

Other than that, to help the auditor acknowledged the relationship between interested parties, third party, supplier and shareholder. This is because it is important to ensure that the checklist is implemented and adapted to the process of the organization, and that it is not a generic process. Furthermore, the question provided which to guide and help the auditor to ask during the reviewing records and interviewing personnel that involve towards the process. Other than that, auditor can use this checklist which to ensure that all the requirement are followed and fulfill. This is because the goal of auditing is to find evidence that the process is meeting its own requirements. Here is the mapping of the ISO/IEC 27552 standard clause allocated, which the extension of both 27001/27002 with privacy guidance.

REVIEW COMMENTATION: NITIAL DOCUMENT REQUEST UST

1. All policies, procedure documents, and aganization diarts
2. New reports used to manage the effectiveness, efficiency, and process

3 Access to key applications used in the process
4 Description and inventory of process master data, including all data

fields and atributes

Figure 3, 33: The initial document request list for audito checklist

Table 3. 5: PIMS-specific requirements for ISO/IEC 27001

Clause number in ISO/IEC 27001;2013	Title	Sub-clause number in this document	Remarks
4	Context of the organization	5.2	Additional requirements
ac.	Leadership	er.	No PIMS-specific requirements
9	Planning	5.4	Additional requirements
1	Support	5.5	No PIMS-specific requirements
0	Operation	5.6	No PIMS-specific requirements
6	Performance evaluation	5.7	No PIMS-specific requirements
10	Improvement	80. 00.	No PIMS-specific

Table 3. 6: PIMS-specific requirements for ISO/IEC 27002

Remarks	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	Additional guidance	No PIMS-specific guidance	Additional guidance
Clause number in this document	5.2	9.3	6.4	6.5	9.9	6.7	6.8	6.9		6.11	6.12	6.13	6.14	6.15
A Salary Salar Salary Salary Salary Salary Salary Salary Salary Salary Salary Salary Salary Salary Salar Salary Salary Salary Salary Salary Sa	Information security policies	Organization of information security	Human resource security	Asset management	Access control	Cryptography	Physical and environmental security	Operations security	Communications security	System acquisition, development and maintenance	Supplier relationships	Information security incident management	Information security aspects of business continuity management	Compliance
Clause number in ISONEC 27002;2013	นก	9	7	00	O)	10	dinner dinner	12	13	4	122	16	Prop.	00

## 3.2.3. Information Privacy Risk on Organization

#### 3.2.3.1. Challenges

Nowadays, privacy issues through the usage of the internet becoming more threatening. There are various challenges and risk that need to be faced by the users such as identity theft, data breach and human error. As privacy risks exist wherever agencies collect, use, share and manage personal information relating to their employees, customers and clients and others. Opportunities will also exist to improve how agencies collect, use, share and manage personal information. Risk management takes into account both risks and opportunities, and is vital for the appropriate management of personal information.

## 3.2.3.1.1. Identity Theft

One of the popular challenges nowadays is identity theft. This will occur when someone used other identity for the purpose of sabotage, marketing purpose, scam and other related issues by using personal information. Personal information will be sold to third parties and other personal information will be captured and used for marketing or other purposes without permission. Besides, personal information can be collected through the scanning and stealing from the mail box, phone, dumpster diving (looking through garbage for document), involve into attacks database and phishing e-mails.

#### 3.2.3.1.2. Data Breach

Data is growing faster from time to time every day. Data has grown exponentially over the last decade with poor security practice, organization will faced risk of a data breach. Personal Identifiable Information (PII) is one of the biggest concerns in data privacy. Based on the Breach level index data records lost or stolen, the statistic of data breach since 2013 until now is 6,401,748. The numbers of statistic are increase every second. According to Verizon 2016 Data Breach Investigate Reports in 2015, there were 64,199 security incidents and 2,260 confirmed data breaches [3].

#### 3.2.3.1.3. Human Error

According to [3] stated that human error is another serious incident that commonly occurred. There is a time when the employee sent the sensitive information to the wrong person. In some of the worst cases, the employee decides to hit the reply all button to an email with hundreds of people contain beneath the chain. Due to this serious carelessness, a lot of people may gain all access to view the sensitive and confidential information with such a small mistake and they do not even have to hack or log in to other people's account to foresee the information itself.

Next is a password weakness. Weak passwords are still the most common reason for data breaches, so organizations should pay very close attention to password security policies and password management. Although this may seem like a simple matter but it contributes to a very serious issues when it comes to data leakage. Even within this modern era, people are not considering to choose a secure password for their accounts instead they only embedded a simple kind of password chosen which can be easily assumed by the hackers.

This happened because they think that the password chosen does not give a huge impact to them and nothing will happen by just choosing a simple password for their account. So, the best practices in choosing a password are ensuring complex passwords composed of numeric, alphabetic (uppercase and lowercase) characters in addition to special symbols and similar characters, forcing users to change passwords regularly and requiring new passwords not previously used by the user.

# 3.2.3.2. Privacy Risk

Based on [6] which discussed about privacy risk and opportunity identification has stated examples of common privacy risks and responsible person who should be involved with privacy matters.

Table 3. 7: Privacy risk and opportunity identification, and responsible person involved

Examples of common privacy risks	Responsible person who should be involved
Staffs do not understand their responsibilities and the actions they need to take to mitigate privacy risks.	<ul> <li>Risk team</li> <li>Managers of staff who deal with personal information</li> <li>Learning &amp; Development</li> <li>Front-line staff (those dealing with customers)</li> <li>HR</li> </ul>
Management does not fully understand where personal information is stored and processed.	<ul> <li>Information management team</li> <li>Front-line/operational staff (those dealing with customers and processes/systems for management of personal information)</li> <li>Managers of staff who deal with personal information</li> <li>Information Technology</li> <li>Records Management</li> </ul>
Privacy risks associated with changes to the organization, including process or system changes, are not adequately considered.	<ul> <li>Risk team</li> <li>Project / programme office</li> <li>Information Technology</li> <li>HR, in respect of changes in people resources</li> </ul>
Personal information is retained longer than is necessary for the business purpose.	<ul> <li>Risk team</li> <li>Records management</li> <li>Information management</li> </ul>
Employees and third parties are unaware of how they can appropriately collect, use, retain, share and dispose of personal information.	<ul> <li>Risk team</li> <li>Records management</li> <li>Information management</li> <li>Procurement,</li> <li>Contract managers</li> <li>Internal audit</li> <li>HR</li> </ul>
Personal information is disclosed to other parties, or used/processed for purposes to which the individual has not consented.	<ul> <li>Risk team</li> <li>Front-line staff</li> <li>Managers of staff who deal with personal information</li> </ul>

Privacy-related enquiries are not responded to thoroughly, in an accurate and timely manner.	<ul> <li>Internal audit</li> <li>Legal team</li> <li>Risk team</li> <li>Front-line staff</li> <li>Managers of staff who deal with personal information</li> <li>Team/individuals who deal with privacy-related queries</li> <li>Legal team</li> </ul>
Personal information is not adequately secured from accidental errors or loss, or from malicious acts such as hacking or deliberate theft, disclosure or loss.	<ul> <li>Risk team</li> <li>Information technology</li> <li>Security team</li> <li>Project / programme management</li> <li>Front-line staff</li> </ul>
The agency's personal information is handled inappropriately by third parties.	<ul> <li>Risk team</li> <li>Third parties</li> <li>Procurement</li> <li>Contract managers</li> <li>Assurance, if assurance is undertaken over third parties' practices</li> <li>Contract "owners"</li> <li>Legal team</li> </ul>
Privacy processes and controls do not operate as intended.	<ul> <li>Risk team</li> <li>Internal audit</li> <li>Front-line staff</li> <li>Managers of staff who deal with personal information</li> </ul>
Privacy-related incidents are not responded to appropriately.	<ul> <li>Risk team</li> <li>Front-line staff</li> <li>Managers of staff who deal with personal information</li> <li>Security team</li> <li>HR, in respect of possible breaches of the code of conduct</li> <li>Legal team</li> </ul>
The agency does not learn from patterns of privacy-related incidents.	<ul> <li>Risk team</li> <li>Business improvement</li> <li>Managers of staff who deal with personal information</li> <li>HR</li> <li>Senior leadership</li> </ul>

# 3.2.4.1. Implication of the development of Auditor Checklist

There are are positive implication for the development of auditor checklist for ISO/IEC DIS 27552. The primary impact by having this checklist which can assist the auditor in conducting the auditing process. The auditor can use this checklist which to know what is the possible question to ask during the auditing process. Other than that, the auditor can know what document that they refer which to ensure the evidences.

The impact towards the Cybersecurity Malaysia is the employees can improve their performance by implementation the requirement needed through the the existence of the checklist. Which is,to increase the level of vulnerabilities and credibility of CSM performances,

#### 4. CHAPTER 4

#### 4.1. Application Knowledge

#### 4.1.1. Research Skill

The trainees required to perform many research during the internship. There are many techniques that the trainee can observed from the senior analyst on how to perform a right method and procedure. After that, the trainee is assigned on conducting research to develop framework which to use in report, then the trainee is really familiar with the research skill. Other than that, the trainee also performs research for cyber threat that could bring beneficial to the trainee.

Based on the subject that have been learn on research methodology in subject of Evaluation of Information Services could help me in fulfil the task given by the supervisor and team leader of my department. Which this subject, acknowledge students on how to conduct research more effectively and efficiency.

## 4.1.2. Auditor Checklist

The trainee is assigned to do checklist for auditor based on the ISO/IEC 27552 which is the extensions of ISO/IEC 27001 and 27002. So, the trainees need to study about the pattern of the auditor usually used. Thus, the trainees have to understand the concept and study on how the audit is actually conducted, because to provide the checklist it is must be rational with the technique apply by the auditor. So, the trainee is exposed with the auditor technique, concept and method used.

Based on the subject teach by Madam Salliza Md Razi regarding the subject of Legal and Ethical Aspects of Information System (IMS657), which subject give exposure to the student about the existing standard that very important during working in the industry. Which, student are acknowledge about ISO/IEC 27001. Easier for the student to understand the standard and applied during working in the industry.

## 4.1.3. Comparative Analysis

Based on the research conducted, the trainee also exposed with the skill on comparative analysis because each of the research must be attached with the comparative analysis which to easier for trainee to discuss and present to the team leader and head of the department. Other than that, the trainee knows on how to categories the data based on the category. Comparative analysis help employee to summarize the outcome from multiple article.

Based on the subject of Management of Information System Department, which Madam Izzatil Husna Arshad gave a task regarding research on the career opportunities in Information System Management, and the result should in a comparative analysts, which to compare the result of the research in suitable criteria.

#### 4.1.4. Privacy and Security Awareness

The trainee is exposed with the concept of the privacy and security of data of individual and organization. How the organization should handle data of the client, customer, vendor, supplier and also data own by the organization from being exposed and breach to unauthorized user. Thus, the trainee aware that leadership plays an importance role for information security being supported, both visibly and materially which is by senior management. Privacy and security is important because to assist in achieving organization business objectives and

processes. Thus organization conformity towards every requirement of information security which protect in term of Continuity, Integrity, Authority (CIA) of information in asset of organization such as people, technology and processes. Example of process is the activities perform such as email.

Legal and Ethical Aspect of Information System (IMS657) subject help the trainee in implementing a good performance in term of privacy and security, because the trainee is acknowledging about the issues and aware about the privacy and security concept which have been exposure during this subject.

## 4.1.5. Cyber Threat

Other than that, the trainee also helps other team which to find out about the cyber threat and issues on aviation sector. The trainee need to conduct a research on cyber threat and issues which to find out about the cases, challenges and also outcomes of the issues and challenges from the research paper. So, the trainee is exposing with the issues in aviation sector and knew the current issues and news on this sector.

With the exposure of Legal and Ethical Aspects of Information System (IMS657) subject assist the trainee during conducting research about cyber threat, which the trainee did not have to spent a lot of time in understanding about the concept of cyber and seeking for the possible threat. With the exposure from this subject that acquired student to find out about the cybercrime, computer crime and personal data, help the trainee to familiar and aware before joining the industry. Which the trainee is aware about the current issues and threat regarding the cyber and technology.

## 4.2. Personal Thought and Opinion

For the personal thoughts and opinion, this well-established company provides great opportunities towards intern, which they help and assist the trainees on how to completing the task. This company really impressed the trainees which they concern on the learning period and time given to acknowledge and expert on certain topic given by them. After that, in my opinion that this company can be the best platform for the trainees to build experiences, new skill and the development of the trainee' career, because the trainee can learn a lot from here by socialize with all employee of the company even from a different department, division and unit. Other than that, this company foster good relationship within and between department and build a good relation with colleagues, and in my opinion it is a good etiquette implemented by this company to be and show as good example for the trainee and outsider of the company. Thus, with this positive behavioral produce a good performance and outcome for the company to become more successful and well known.

# 4.3. Lesson Learnt

There are many lessons that could be learnt in this company which they treat the trainees as permanent employee so that we could learn any skills and way of producing and processing the services. Other than that, the important lesson that the trainee could learnt is teamwork. In our department all of the employees doing their task with a strong and passionate teamwork that positively produce a good result and effectively.

Even, they are from different team but they can help each other on giving idea, opinion that could contribute to the work task. Furthermore, the lesson that the trainee could learn is to do your work sincere and solve the problem but not avoid the problem, so the result can be more effective and even the task can be completed on time.

Other than that, the relationship between employees in this company is so close which even from different department and division. So, there are many experience can be shared together between different background, department and division. On the other hand, through this internship, the trainee can learn on how to work multi task, which not focusing one job only.

Through this attitude, the employees and the trainee itself could receive and share many experiences that could enhance their skill, and qualification. And exposed and developed with latest trend and current issues. In term of technique and knowledge, that the trainee can have a lesson about the importance of the securing privacy from breach to irresponsible person.

The information privacy not even must be kept safe by the owner but also to whom the data are given with consent. The trainee can implement this lesson during work and the trainee can share and arise awareness to future employer and colleague about the importance of information privacy. This is because, privacy is usually being not take seriously.

# 4.4. Limitation and Recommendation

During my internship, there is no limitation while training here, but there is few can consider one as limitation which as a trainee we could not use their wireless network connection because there is a policy allocated stated that only permanent employee is allowed in accessing the wireless network connection, this is because to avoid unnecessary harm, action happened that can cause a negative impact to the company daily process and routines. For example, to avoid infected of virus, and other parasite that may harm the company reputation and breach of data.

As concern, this company is cyber security company that align with the standard, policy, procedure and guideline which to control their brand, and reputation to be as a strong and trusted company. Then, this is one of the implementation guidance that this company complies. The control is become a limitation to the trainees because it hard for the trainees to do work if working outside from the working station. However, the company provides the trainees with cable network which only can be use in working station. If the trainees have any invitation to the meeting outside of the working station, then the trainees cannot connect to the network and searching for the information.

Not enough staff in ISMA department. There are only few of the staff allocated for this department which contributed to three units. Few staff are needed which to help the department complete the task, this is because this department play an important role, for the organization by handling whole internal ISMS, and Business Continuity.

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# Timeline (Schedule)

# **Job Scope**

No.	Komponen	Rujukan
1	a) Tadbir Urus Privasi b) Dasar dan Procedur Privasi c) Pengurusan Privasi i) Perancangan ii) Penasihat iii) Pemantauan dan Melaporkan iv) Audit dan Ulas d) Operasi Privasi i) Pengurusan persetujuan ii) Hak sokongan privasi pelanggan iii) Ulasan iv) Pengurusan pencerobohan	i. ISO/IEC 29100: Privacy framework ii. APEC Privacy Framework 2005 iii. The Software Alliance BSA Privacy Framework iv. The OECD Privacy Framework 2013 v. Privacy Governance Framework 2016 (Information and Privacy Commission, New South Wales) vi. ISO/IEC TS 19608:2018 - Guidance for developing security and privacy functional requirements based on ISO/IEC 15408 vii. Privacy Management Reference Framework
2	Mengasaskan perancangan data terbuka  a) Penerbitan maklumat: "Open by default" I "Open by design" b) Had data terbuka c) Kategori data terbuka	i. ISO/IEC 27001:2013  ii. Akta Perlindungan Data Peribadi 2010 (Akta 709)  iii. Akta Perlindungan Pengguna 1999 (Akta 599)  iv. Guidelines on The Implementation of the Public Sector Open Data Initiative by MAMPU (2015)

No.	Komponen	Rujukan
3	Penyediaan dan pelaksanaan teknikal  Melakukan penaksiran risiko terhadap privasi data terbuka  i) Menilai kandungan maklumat data terbuka  ii) Menilai kelebihan data terbuka  iii) Menilai risiko data terbuka  iv) Imbang duga kelebihan dan risiko data terbuka  v) Menilai keselurahan impak data terbuka	i. ISO/IEC 29134:2017 - Security techniques - Guidelines for privacy impact assessment  ii. ISO/IEC 27005: Information security risk management  iii. City of Seattle Open Data Risk Assessment (2018)
4	Panduan terhadap Perlindungan Privasi Keterbukaan Data  Penglibatan privasi di dalam teknologi terkini	i. ISO/IEC 27002: Code of practice for information security controls; ii. ITU-T X.1058   ISO/IEC 29151: Code of practice for personally identifiable information protection  a) Internet of Things (IoT) i. IoT Security & Privacy Trust Framework v2.5 2017 ii. Internet of Things Security Guideline V1.2 by IoT Alliance Australia (IoTAA)
		Australia (IoTAA)  iii. Internet of Things (IoT) Cybersecurity Improvement Act of 2017  iv. Internet of Things Consumer Tips to Improve Personal Security Act of 2017 ("IOT Consumer TIPS Act of 2017")  v. State of Modern Application, Research, and Trends of IoT Act ("SMART IoT Act").  b) Cloud

No.	Komponen	Rujukan
		i. ISO/IEC FDIS 27017:2015 - Code of practice for information security controls based on ISO/IEC 27002 for cloud services ii. ISO/IEC 27018:2019 - Security techniques - Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors
		c) Smart City
		<ul> <li>i. State of Modern Application,</li> <li>Research, and Trends of IoT Act</li> <li>("SMART IoT Act").</li> </ul>
		ii. Kertas kajian oleh ahli akademik
		d) Blockchain and IR 4.0
		Kertas kajian oleh ahli akademik

# **Presentation Slide**





- 1. ORGANIZATION
- 2. DEPARTMENT
- 3. TRAINING ACTIVITIES
- 4. SPECIAL PROJECT
- 5. CONCLUSION



Background



CHAPTER 1.

#### HISTORY

Cybersecurity Malaysia is one of the organization that provide cybersecurity innovation and services, programmers and inhibitatives to help reduce the vulnarability of digital system and the same time strengthan Malaysia self-relatince in cyberspace.

National CT Security & Emiricancy Response Centre (MISER) was created in 2001 as a department in MIMOS Serthed, and the Malaysis Computer Emiricance Computer MISER. On 28 September 2005, the Cabines decided for NISER to be spur-motel trom MIMOS Seched as a separate antity under MOSTI.

## MYCERT

Cyberocority Malaysis journey started with the creation of the Malaysis Computer Emergency Response Team of MyCERT on the 19th of January 1877 as a with Under MIMOS Benhad. On the 24th of January 1887, the Nethonship formation Technology 1989, the Nethonship formation Technology Coulincil or NITC proposed for the stablishment of an agency to address emerging CT socially sixtes in Malaysis.

201 2006 2017 2017

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MyCERT & Cyber999
Distal Frendes - Donot CS;
Materyana - Scrath Evaluation Fraction (Materyana - Volumphily American)
Adenyana - Volumphily American Body
Materyana - Volumphily American Body
Materyana - Volumphily Certification Body
Materyana - M

ISMA

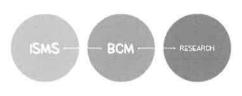
INFORMATION SECURITY
MANAGEMENT ASSURANCE
ALSO KNOWN AS SECURITY
MANAGEMENT BEST
PRACTISE (SMBP)





The primary role of Security Management & Best Practices (SMBP) department is to drive information security management based on ISO/IEC 270012005 Information Security Management System (ISMS) for CyberSecurity Malaysia.

This includes planning, developing, implementing and monitoring ISMS such as information security lisk management, information security awareness programed, information security management review, development of information security policies and procedures and Gusiness Continuity Management







#### Industry 4.0 vs IR4.0

Industrial Ravolution 4th is a total transformation of all industrial sectors from primary, secondary, tertiary, and Quaternary sector. While industry 4D is adoption from the secondary sector and focus on the smart manusfacturing

#### Artificiel Intelligence

AT SHEARM PRESIDENCE
All is a concept that is made up of numerous subfields such as machine learning, which focuses on the development of programme that can teach themselves to been, understand, reason, plen, and act when exposed to new date in the right quantities.

#### Standard

1.Review, acknowledge and used -ISO/IEC 27001 -ISO/IEC 27002 -ISO/IEC DIS 27552 -ISO/IEC 20100

## Cloud Computing

Cloud computing is a computing paradigm, where a large pool of systems are connected in private or public networks, to provide dynamically scalable infrastructure for application, data and file storage.

#### SMART CITY

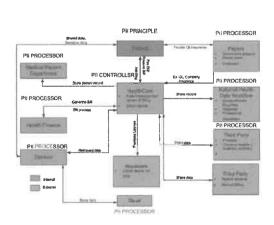
Smart GIty is the technology which implemented towards the needs of the city. Smart City nowadays be applied to the facilities in the city such as Traffic Light, and Streetight that elready applied at the Malkysia.

# Information Privacy & Security

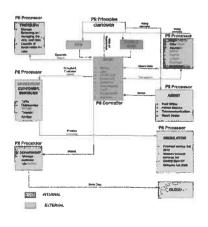
information privacy is currently regarded at an element of information security processes, the actual coverage of information privacy in technical secturity standards of all layers will be now explored.













Moving to new building from Seri Kembangan to Cyberjaya



The traines is respliced to appressed the record based on the date of the publication by referring to the ISMS driver which known as Me Hamis. She is in changes for the maving out for our department.



The trainer also in change in labelling the boxes which is to easier for the SARAU Holding in sorting the boxes for each of the department leadage to sycid from misplace of the boxes,



The traines helps the ISMS driver in distructing the recent by using the shreading machines. Before invedding the record, the record mast be put into the green container before shreading the records.



on Open two new File, for the or department, record regarding in ISMS report. Together with inhalling, and cleanerly.



The traines also haped in traines also haped in traines also haped in trainering the records from the solves to the boxes given by the third porty that supplying the boxes, wrapping and dalves the house to see heldfoot.



Date Converting
Help ISMS team in transferring
the result of a restromeire into

# Knowledge Sharing

Every Wednesday Knowledge Management @ Library of the CSM conducting knowledge sharing session which everyone from the company can share enything and any topic to other Somatimes, knowledge Management may invite sharer from outside such as writer, reporter.

The traines shared the experiences about travelling to kores, share on tips and trick during in Kores. The trainee will come to knowledge Management @ Library every Wednesday.





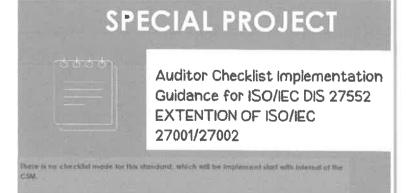
Develop Research Paper

The trained are required which to develop a research paper regarding information Privacy

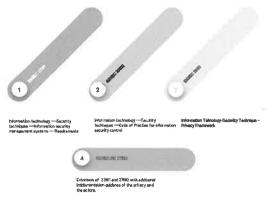












AUDITOR CHECKLIST

Auditor checklist for ISO/IEC DIS 27552, which is the extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management -Requirements and puidelines

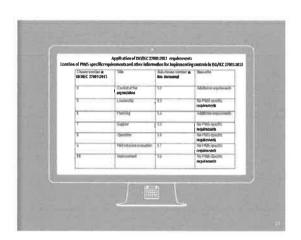
- Review documentation: INITIAL DOCUMENT REQUEST LIST

  1. All policies, procedure documents, and organization charts

  2. Key reports used to manage the effectiveness, efficiency, and process success
- 3. Access to key applications used in the process
- Description and inventory of process master data, including all data fields and attributes

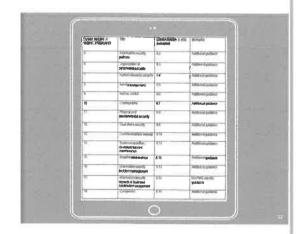
AUDITOR CHECKLIST IMPLEMENTATION GUIDANCE: Help and gastaf auditor on what document are needed by an each of the clause and sub-clause. There are tive clause which constit many sub-clause and with the additional implementation guidance

ISO/IEC 27001; 2013



## Clause

The list of the clause allocated for ISO/IEC DIS 27552, under ISO/IEC 27802



CHAPTER 4. CONCLUsion Application Knowledge





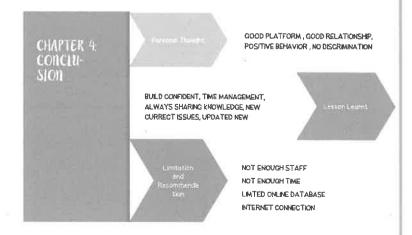
Knowledge Shertop & Charity Information System Interaction and Consultation



Lagel and Ethical Aspects of Information System

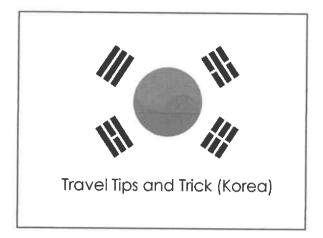


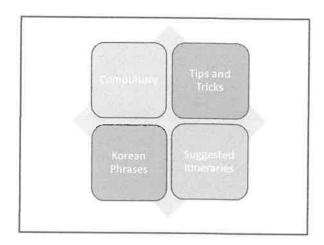
is the color of blood, and because of this It has historically been associated with sacrifice, danger





# **Activities**





# 

# Tips and Tricks

- Roll don't fold
- Cover your footwear with shoe bags or shower caps
- · Pack the heaviest items closest to the wheels
- · Put your toiletries in a transparent bag
- Put loose wires in a sunglasses case
- Put breakables in socks
- Capitalize on empty space
- · Avoid heels, and wear sport shoes or sneakers

- · Bring medicine description
- Fold a shirt and put it in the inside of a hat to keep your hat from getting squished.





# **Korean Phrases**

- Nak tanya how much Ahjussi / ahjumma, olmayeyo
- Kalau nak minta diskaun Ahjussi/ahjumma, kaka juseyo
- Jika mereka tak bagi diskaun, puji sikit cakap dia handsome / cantik. Contoh – Ahjussi, neomu motjida? Ahjumma, neomu yeppoyo?

# Suggested Itineraries

- Prayer
  - Everland , Itaewon, Nami Island
- Food
  - Itaewon (Muslim community)
    - » Makan Restaurant
    - » Elci (Malaysia Branch, Bangi)
    - » Many more, include Turkish restaurant
  - Seoul
    - » Yang Good BBQ (yeoksam)
    - » Kampung
  - Nami Island
    - » Dongmun(Asian Cuisine)





# Transport

- Train, Bus, Taxi
- Train AREX, and ALL Stop Train (from Incheon Airport to Seoul)
- . Korail , ITX train (Nami Island)
- T-Money (at least 10,000 won)
- Location
  - Nami Island
  - Namsan Tower
  - Gangnam( Entertainment)
  - Everland (Theme Park)
  - Myeondong, Dongdaemun, Evva Women University, Hongdae
  - Gyeongbokgung Palace, Blue House(PM)





# **Staff Assembly**

From: NORLELA BINTI MOHAMED YUNAN < norlela@cybersecurity.my>

Sent: Tuesday, 26 February, 2019 2:42 PM

**To:** CyberSecurity Malaysia Staff <<u>staff@cybersecurity.my</u>> **Cc:** Human Capital Development <<u>hcd@cybersecurity.my</u>>

Subject: HCD ANNOUNCEMENT: STAFF ASSEMBLY @ 5 MARCH 2019

Assalamualaikum wbt & Salam Sejahtera

Kindly be informed that we will be having Staff Assembly, as follows:

# **Date**

5 March 2019 (Tuesday)

# Time

10.15 a.m. - 12.00 noon

# **Venue**

Dewan Musytari, RHR Hotel@UNITEN, Kampus Putrajaya, Universiti Tenaga Nasional, KM7, Jalan Ikram – UNITEN, Kajang, Selangor.

# **Agenda**

10.15 a.m. : Staff Arrival and Registration

10.30 a.m. : Welcome Note by Emcee

10.35 a.m. : Singing of "NegaraKu"

Doa Recital

10.40 a.m. : Updates by Chief Executive Officer

YBhg. Dato' Ts. Dr. Haji Amirudin bin Abdul Wahab

11.30 a.m.: Reward & Recognition

11.50 a.m.: Introduction of New Hires in 2018 & 2019

12.00 noon: End of Assembly & Refreshment

Attendance is compulsory.

Thank you & Best Regards,

Human Capital Development Department

