

Rayed Intern Report

- **HSE and organisation Induction Dolphin Energy Limited:**

- Dolphin Energy HSE&S Induction.
- Quick rotation for the student within the Department that he/she has been assigned to.
- Review learning objectives with the coach and the students

- **Artificial Intelligence AI task from CISO:**

- AI related task and Research instructed by CISO, with Report study and suggestions.
- Review and understand DEL 's AI procedure, charter, policy and architecture strategy.
- Enhance knowledge of in-house AI, with diverse Frameworks as proposed in DEL AI strategy and evaluate the possibility of creating.
- Learned about traditional vs generative AI
- Full training vs fine tuning ML models
- Securing Enterprise AI models
 - Data
 - Actual model itself
 - Application incorporating this model
- Risk to ML models:
 - Hallucinations
 - Direct / indirect prompt injection attacks
 - AI Gateways, and its architecture
- Agentic AI and future developments
- Difference between Engines, models and frameworks
- Researched and evaluated different frameworks (PyTorch, TensorFlow and Langchain) and engines (Copilot).
- Use of copilot Studio for easier workflow management
 - This solution would also be integrated with the ongoing SIEM and SOAR unit migration operation

- **Cybersecurity division work:**

- Gain a comprehensive understanding of common cybersecurity threats and vulnerabilities
- Understanding and explain Information Security roles and read Information security policies & procedures.
- Go through the different solutions we use in daily CIS operations, to understand the phases of incident management and investigation.
- DLP (Data leak prevention) understanding
- Data classification understating
- Zero trust network concept understanding and ZTNA application solution (Appgate)
- Email Security layers and architecture
 - ESG (Iron Port)
 - Trend Micro
 - Darktrace
- SIEM and SOAR applications
- Log analytics in different domains: Network, End point and Email
- Proxy concept understanding and solution overview (Symantec Proxy)

- **Networks and Security Components:**

- Network architecture
- IP modelling V4 V6
- Subnet mask
- MAC Addresses
- Static and dynamic routing protocols
- OSI Model
- Security Zones – External / Internal / DMZ
- Firewalls and interfaces
- DMZ components: Load balancer, WAF and more

- **IT Operations:**

- VMs and Hypervisors: Overcommitment
- EMC Networker: Backups and restoring
- File server
- SCCM (app deployment solution) overview
- Exchange server
- Active directory
 - Azure AD for cloud
- Business continuity management (CS incident BSOD)
- Power BI / Power apps and data warehousing
- Shifting and centralizing legacy company data