DIGITAL EGYPT PIONEERS INITIATIVE (DEPI)
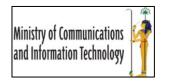
Technical Catalog
Round 3
(June-December 2025)
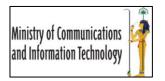
Contents

Introduction

DEPI includes 6 technology tracks (specialties) that cover highly demanded jobs. Those tracks are:

1. SOFTWARE DEVELOPMENT
2. DIGITAL MARKETING & ART
3. AI & DATA SCIENCE
4. DATA ANALYTICS
5. INFRASTRUCTURE & SECURITY
6. MANAGEMENT & ERP

Each technology track offers training courses for technologies used by many companies in that specific track, and each course covers a potential job opportunity (job profile). The objectives of studying each job profile are

- Provide trainees with the necessary technical background and experience needed to excel in specific technologies that match trainee's capabilities and aspirations. This includes all the necessary prerequisites.
- Guide trainees on how to develop a professional and product quality module.
- Explain different aspects of the product development life cycle (planning, design, development, integration, and testing) that help trainees succeed in job market.
- Involve trainees in hands-on experience and training that deepen their understanding of the introduced technologies.

SOFTWARE DEVELOPMENT TRACK

The software track offers training courses for several web development technologies (frontend/backend) across different platforms, mobile development, cloud application development, DevOps, and software testing.

Software Development

1. DevOps Engineer
2. React Frontend Web Developer
3. Angular Frontend Web Developer
4. Full Stack .Net Web Developer
5. Android Mobile App Developer
6. Cross Platform Mobile App Developer
7. Software Tester

SOFTWARE DEVELOPMENT TRACK

1. DevOps Engineer

A DevOps Engineer is responsible for smoothing the operation of a company's IT infrastructure. A DevOps Engineer's roles and responsibilities are a combination of technical and management roles. DevOps Engineers build and set up new development tools and infrastructure, implement integrations requested by customers, deploy updates and fixes, develop scripts to automate visualization, design procedures for system troubleshooting and maintenance, and optimize software development processes.

The technical study plan proposed for a DevOps Engineer is provided below:

Contents
Prompt Engineering
DevOps Essentials & Perquisites
Configuration Management using Ansible
Using Git for DevOps
Containerization basics using Docker
Docker Advanced
Continuous Integration using Jenkins
Introduction to Kubernetes
Continuous Monitoring using Prometheus
Cloud for DevOps
Terraform
Application Deployment (Resource Dependencies,….)
web server configurations
Capstone Project

SOFTWARE DEVELOPMENT TRACK

2. React Frontend Web Developer

This profile is equipped with comprehensive knowledge of web development essentials such as HTML, CSS, and JavaScript, and specialized in building React applications. With proficiency in Git and GitHub for version control, NodeJS for server-side scripting, and an understanding of containerization with Docker and Kubernetes. The culmination of these skills is demonstrated in a capstone project, bringing React and NodeJS together to produce a real-world web application.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
HTML5 Essentials
CSS Essentials Principles of UX/UI Design
JavaScript
Typescript
Bootstrap
Getting Started with Git and GitHub
React
Code style, patterns and best practices
Introduction to Backend: NodeJS + Express
Containerization basics using Docker
Functional Documentation & Unit Testing
Capstone Project

SOFTWARE DEVELOPMENT TRACK

3. Angular Frontend Web Developer

This frontend profile is adept in HTML5 Essentials, CSS with a focus on the principles of UX/UI design, JavaScript for dynamic interactions, Bootstrap for responsive design, and Angular for robust single-page applications. With these skills, participants will be capable of crafting user-centric websites and applications that are both functional and visually appealing.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
HTML5 Essentials
CSS Essentials Principles of UX/UI Design
JavaScript
Typescript
Bootstrap
Getting Started with Git and GitHub
Angular
Code style, patterns and best practices
Introduction to Backend: NodeJS + Express
Containerization basics using Docker
Functional Documentation & Unit Testing
Capstone Project

SOFTWARE DEVELOPMENT TRACK

4. Full Stack .Net Web Developer

Rooted in .NET technologies, this profile reflects a solid foundation for data-driven applications. With a strong grasp of C#, the candidate is equipped with robust back-end development. Front-end proficiency is ensured through HTML5, JavaScript, and CSS3, creating a full-stack capability. Experience with the .NET Core Web API and MVC frameworks enables the creation of scalable, modern web services and applications, completing a versatile skill set for comprehensive .NET development.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Introduction to SQL Server Programming
Getting Started with Git and GitHub
Programming in C#
Programming in HTML5, JavaScript & CSS3
Functional Documentation & Unit Testing
Containerization basics using Docker
.Net Core Web API
Developing .NET Core MVC Web Applications
Capstone Project

SOFTWARE DEVELOPMENT TRACK

5. Android Mobile App Developer

An android Mobile Application Developer is responsible for designing, developing, and maintaining an android mobile application. The courses in this profile cover a range of technologies that a Mobile Application Developer should have a strong understanding of and be able to use these technologies to design and develop native android , responsive and user-friendly mobile applications.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Kotlin Fundamentals For Android
Android MDC
Android Compose
Android Security Essentials
UX/UI Basics
Getting Started with Git and GitHub
Functional Documentation & Unit Testing
Capstone Project

SOFTWARE DEVELOPMENT TRACK

6. Cross Platform Mobile App Developer

A cross platform Mobile Application Developer is responsible for designing, developing, and maintaining a cross mobile application with highly detailed cross platform mobile development content. The courses in this profile cover a range of technologies that a Mobile Application Developer should have a strong understanding of and be able to use these technologies such as flutter technology to design and develop responsive and user-friendly mobile applications.

The technical study plan proposed for a cross platform mobile developer Associate is provided below:

Contents
Prompt Engineering
Dart Fundamentals For Flutter
Flutter Fundamentals
Flutter Advanced Topics
Firebase
UX/UI Basics
Getting Started with Git and GitHub
Functional Documentation & Unit Testing
Mobile Deployment for android and IOS
Capstone Project

SOFTWARE DEVELOPMENT TRACK

7. Software Tester

Software testing is a crucial part of the software development lifecycle, and a Software Tester is responsible for ensuring that software products meet quality standards. A successful Software Tester should have a strong understanding of the topics covered in the courses in this profile and be able to use them to design and execute effective testing strategies.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Java programming fundamentals
Fundamentals Of Testing (ISTQB 4)
Testing Throughout the Software Development Life Cycle (ISTQB 4)
Static Testing Techniques (Jira)
Test Tools (postman, selenium)
Test Analysis & Design
Managing Test Activities (Database and Agile)
Capstone Project

DIGITAL MARKETING & ARTS TRACK

Do you want to turn your love of art into a job? This program teaches you how! You'll learn how to create amazing things and how to sell them online.

Here's what you'll learn:

- **Make cool pictures and designs whether it static, motions, or even videos:** Learn **graphics design**, **motion graphics**, and **video editing**.
- **Create 3D art:** Use **3D Max** to build amazing 3D models and elevate it to VR Designs.
- **Design websites and apps:** Learn **UI/UX** to make them easy to use.
- **Sell your work online:** Learn **digital marketing** to get your work seen by lots of people.

We'll help you become a great artist and a smart marketer. This will help you find a good job in today's digital world.

Ready to unleash your creativity and build a successful career? Join the Digital Marketing and Arts track!

Digital Marketing & Arts

1. Digital Marketing Specialist
2. UI/UX Web Designer
3. Motion Graphics Designer
4. Graphics Designer
5. Media Production for Influencers
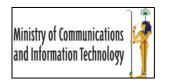6. Mastering Professional 3D & VR Design

DIGITAL MARKETING & ARTS TRACK

1. Digital Marketing Specialist

Become a Digital Marketing Mastermind in this job-ready course! Learn advanced marketing tactics to craft powerful messages and build winning strategies. We'll cover everything from marketing basics to creating a content strategy. Master social media like Facebook, Instagram, and more! You'll also conquer email marketing, mobile marketing, Google Ads, and customer relationship management. You'll level up your skills with real-world projects, building a portfolio that showcases your abilities. By the end, you'll be a confident digital marketing specialist.

The technical study plan proposed for this job profile is provided below:

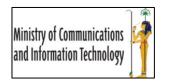| Contents |
|---|
| Foundations of Marketing |
| Foundations of Digital Marketing |
| Content Marketing & Content Strategy Development |
| Social Media Marketing (Facebook, Instagram Threads, X, LinkedIn, TikTok, Snapchat, YouTube) |
| Search Engine Optimization |
| Email Marketing |
| Google Ads |
| Mobile Marketing |
| Customer Relation Management for Digital Marketing |
| Performance Measurement & Reporting |
| Affiliate Marketing |
| Allocating Budget |
| Digital Transformation |
| Prompt Engineer |
| Planning & Capstone Project |

DIGITAL MARKETING & ARTS TRACK

2. UI & UX Web Designer

Design Apps and Websites People Love! This course gets you started in UI/UX design, a cool field where you make apps and websites easy and fun to use. We'll teach you advanced tricks like talking to real users to understand their needs, organizing information clearly, and making buttons and menus work smoothly. You'll learn to work with other designers and programmers to turn ideas into awesome apps and websites!

This course isn't just lectures – you'll get to practice by working on real projects. Imagine building a portfolio that shows you can design apps that are easy to navigate, clear and attractive websites, and anything else users might need! By the end, you'll have the skills and confidence to land a job in a growing field, working on websites, apps, and more for tech companies, online stores, and all sorts of businesses. Get ready to design the future!

The technical study plan proposed for this job profile is provided below:

Contents
UI-UX Fundamentals
Adobe Photoshop (for Web)
Adobe Illustrator (for Web)
Applying UI-UX using Adobe XD
Figma
Prompt Engineering
Capstone Project

DIGITAL MARKETING & ARTS TRACK

3. Motion Graphics Designer

This course won't just teach you software – it'll unleash your inner motion master! Through hands-on projects, you'll build a killer portfolio that shows you can create show-stopping motion graphics. Imagine crafting title sequences that grab attention like a movie trailer or explainer videos that make complex ideas crystal clear. We'll dive into the secrets of storytelling through animation, using sound and visuals to make viewers feel something real. By the end, you'll have a portfolio packed with projects that prove you can take any idea and turn it into a captivating motion graphic that stops people in their tracks. Get ready to graduate with the skills and confidence to take the motion graphics world by storm!
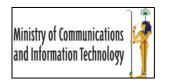
The technical study plan proposed for this job profile is provided below:

Contents
Adobe Illustrator (for Motion)
Adobe After effect
Element 3D
Adobe Premiere Pro Fundamentals
Adobe Audition
Adobe Character Animator
Prompt Engineering
Capstone Project

Prerequisite:
Portfolio or Behance link for Photoshop & Illustrator Fundamentals

DIGITAL MARKETING & ARTS TRACK

4. Graphics Designer

Elevate your Visual Communication Skills! This comprehensive course equips you with the mastery of Adobe Creative Suite, the industry standard for graphic design. Through in-depth exploration of Photoshop CC, Illustrator, and InDesign, you'll gain expertise in image manipulation, photorealism, vector graphics creation, and professional layout design. But this journey goes beyond software proficiency. We'll delve into advanced techniques like typography manipulation, vector illustration methods, and 3D integration using Adobe Dimension. This project-based curriculum empowers you to build a strong portfolio, demonstrating your ability to tackle diverse design challenges and translate concepts into captivating visuals. Prepare to become a leader in crafting impactful graphic narratives that resonate with audiences.

The technical study plan proposed for this job profile is provided below:

Contents
Design Principles
Adobe Photoshop
Adobe Illustrator
Adobe InDesign
Adobe Dimension
Prompt Engineering
Capstone Project

DIGITAL MARKETING & ARTS TRACK

5. Media Production Influencer

Want to capitalize on the booming influencer economy? This profile equips you with the essential multimedia skills to create captivating content and build a powerful online presence. We'll dive deep into the industry-standard Adobe suite – Photoshop, Premiere Pro, After Effects, and Audition – giving you the tools to produce professional-grade visuals and videos.

Beyond the technical skills, you'll learn the crucial art of crafting engaging narratives and leveraging prompt engineering to connect with your audience. We'll explore strategies for building a strong personal brand and maximizing your reach in the digital space. Your capstone project will serve as a practical demonstration of your ability to create impactful content and influence your target audience.

If you're ready to harness the power of multimedia to build a successful career as an influencer or content creator, this profile provides the perfect launchpad.

The technical study plan proposed for this job profile is provided below:

Contents
Adobe Photoshop for Multimedia
Adobe Premiere Pro
Adobe After Effects
Adobe Audition
How to Influence
Prompt Engineering
Capstone Project

DIGITAL MARKETING & ARTS TRACK

6. Professional 3D & VR Designer

Welcome to the world of professional 3D creation, now expanding into the exciting realm of Virtual Reality! This course is designed to transform you into a highly skilled 3ds Max artist, equipped for both traditional 3D and immersive VR experiences. You'll move beyond basic modeling to master advanced techniques for crafting intricate products, environments, and characters, with a special focus on optimizing designs for VR.

Throughout this project-based course, you'll gain hands-on experience by tackling real-world scenarios, including VR-specific challenges, and build a strong portfolio that showcases your expertise. Get ready to push your creative boundaries and become a sought-after 3D artist in marketing, advertising, VR development, and beyond.

The technical study plan proposed for this job profile is provided below:

Contents
Autodesk 3D Max
VR Content Creation
Prompt Engineering
Capstone Project

Prerequisite:
● Portfolio or Behance link for Photoshop & Illustrator Fundamentals

AI & DATA SCIENCE TRACK

This track primarily focuses on applying data science and machine learning techniques to solve real-world challenges and problems and get familiar with a wide range of topics related to this field, for example: machine learning, deep learning, language processing, and others.

By the completion of the course, you will have
- The practical experience needed to use artificial intelligence to solve problems.
- The ability to deal with data in its various forms, collect it, extract data in appropriate forms that fit processing requirements.
- The ability to understand and analyze data, and extract important information from it, and thus provide recommendations to companies in various fields.
- Effectively implement and manage large-scale and complex AI projects.
- The ability to evaluate and analyze problems as well as propose solutions related to the development of artificial intelligence systems.

AI & DATA SCIENCE

1. Generative AI Professional
2. Microsoft Machine Learning Engineer
3. Data Scientist
4. Microsoft Data Engineer
5. Huawei Big Data Engineer

AI & DATA SCIENCE TRACK

1. Generative AI Professional

Trainees will learn the required skills to use generative AI in their professional lives. Additionally, they will explore the fundamental ideas behind generative AI and gain knowledge about generative AI models. Furthermore, trainees will be introduced to the moral implications of employing generative AI.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Math (Statistics and Linear Algebra Basics)
Python Programming
Python for Data Science, AI & Development
Preprocessing & Visualization
Machine Learning Techniques
Deep Learning
Natural Language Processing with Attention Models
Computer Vision and Transfer Learning
Generative AI models
Generative Models, LLM, GANs, and Hugging Face
Generative AI Capstone Project

AI & DATA SCIENCE TRACK

2. Microsoft Machine Learning Engineer

Trainees will learn how to use Microsoft technology to translate the raw data gathered from various data pipelines into data science models that can be applied and scaled as needed. In addition, they will also develop algorithms and build programs that enable machines, computers, and robots to process incoming data and identify patterns.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Math (Statistics and Linear Algebra Basics)
Python Programming
Python for Data Science, AI & Development
Preprocessing & Visualization
Machine Learning Techniques
Deep Learning
Natural Language Processing with Attention Models
Computer Vision and Transfer Learning
Azure AI Fundamentals
Azure AI Engineer Associate
MLOps Tools, MLflow, and Hugging Face
Capstone Project

Applicants will be required to sign up for a Microsoft Azure account in order to complete this profile. The sign-up process may require a valid Credit card or ".edu" email.

AI & DATA SCIENCE TRACK

3. Data Scientist

This course is designed by IBM. A data scientist can leverage a unique set of skills and tools to help businesses derive value from their data. A data scientist is capable of mining the data for drivers of past and future performance, opportunities for new revenue, methods to increase efficiency, ways to improve the customer experience, and a host of other critical business insights.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
What is Data Science?
Tools for Data Science
Data Science Methodology
Python for Data Science, AI & Development
Python Project for Data Science
Databases and SQL for Data Science with Python
Data Analysis with Python
Data Visualization with Python
Machine Learning with Python
MLOps Tools, MLflow and Hugging Face
Capstone Project

AI & DATA SCIENCE TRACK

4. Microsoft Data Engineer

Microsoft Data Engineer learns how to use Microsoft tools for data management and processing. He/she should be experienced in SQL, Microsoft Azure platform.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Microsoft SQL Essentials
Implementing a SQL Data Warehouse
Python Programming Fundamentals
Data Science with Python
Azure Data Fundamentals
Azure Data Engineer Associate
Capstone project

AI & DATA SCIENCE TRACK

5. Huawei Big Data Engineer

Using Huawei technology mainly, Huawei Big Data Engineer designs software, programs and algorithms that help to deal with data and big data and take actions independently without receiving direction to perform these specific tasks.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
What is Big Data?
HCIA-Big Data Training
HCIP-Big Data Developer Training
Big Data-Data Mining Training
Capstone Project

DATA ANALYTICS TRACK

Data analysis aims at getting useful insights using the given data to support the process of decision making. The field of data analysis has witnessed great importance in recent years due to the boom in technology and the availability of advanced tools and techniques that help provide better results and solutions to various organizations.

The educational objectives of the program are:
- Learning different ways of analyzing data.
- Applying statistical models and modern data science tools to understand and analyze data and solve business problems.
- Studying machine learning algorithms to make the right decisions and meet the challenges of modern business.
- Acquiring different skills, tools, and methodologies to explore past business performance and drive future planning.

Data Analytics

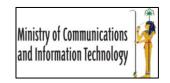1. Google Data Analyst Specialist
2. Microsoft Power Bi Engineer

DATA ANALYTICS TRACK

1. Data Analyst Specialist

A data analyst specialist is responsible for analyzing data and extracting useful insights from large amounts of data using a variety of tools and techniques. A data analyst's roles and responsibilities are a combination of technical and management roles. Google Data analysts visualize data and prepare reports on data findings, review data quality to identify possible sources of error, consult with management on potential changes to business processes, recommend further changes to data models or data structures, identify patterns and trends in data using data mining and statistical analysis software, and recommend improvements in the products and services to achieve customer satisfaction and preferences.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Foundations of Data and Data Analytics
Make Data-Driven Decisions
Data Preparation for Exploration using Python
Data Cleaning Process and Organization of Data using SQL
Data Analysis to Answer Questions
Data Visualization using Tableau
Introduction to Microsoft Power BI
Visualization and Dashboard Development using Power BI
Data Governance
Capstone Project

DATA ANALYTICS TRACK

2. Microsoft Power BI Specialist

Power BI Engineer is responsible for collecting, analyzing, and visualizing data from various sources using Azure services. They analyze massive amounts of data to find trends, patterns, and insights that can make informed business decisions. A Microsoft Enterprise Data Analyst's roles and responsibilities are a combination of technical and management roles. Microsoft Enterprise Data Analysts collect and analyze data to identify trends and patterns, build predictive models using machine learning algorithms, create dashboards and reports to visualize data, identify and correct data quality issues, collaborate with business stakeholders to understand their data needs, and update data analytics tools and technologies.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Introduction to Data Analysis & Data-Driven Decisions
Brief Introduction to Microsoft Azure
Introduction to Power BI
Extract Data from Different Sources in Power BI
Data Cleaning Using PowerQuery
Introduction to DAX
Data Analysis and Visualization using Power BI
Dashboard and Report Development in Power BI
Data Modeling and Integration in Power BI
Publishing and Sharing Power BI Report
Data Refresh Mechanisms in Power BI
Visualization using Tableau
Data Governance
Capstone Project

INFRASTRUCTURE & SECURITY TRACK

With the increase in the use of the Internet in the tasks of our daily lives (such as electronic banking services, online shopping, social media, etc.), personal data has become increasingly vulnerable to electronic attacks, as attackers use modern methods and technologies to overcome traditional security controls. This is why cyber security has become an important field and is in high demand.

The cyber security track includes the techniques and mechanisms for ensuring the security of computer systems, data, and networks and protecting them from various electronic attacks.

The educational objectives of the program are:

1. Developing the manpower required to protect Egypt from electronic threats, while ensuring that security priorities are aligned with the country's work needs and strategies
2. Empowering graduates with the technical knowledge and skills necessary to protect and defend computer systems and networks
3. Develop graduates who are able to identify, analyze, and remedy computer security breaches
4. Develop graduates who can plan, implement and monitor cyber security mechanisms to help ensure that IT assets are protected.

INFRASTRUCTURE AND SECURITY

1. Huawei Network Administrator
2. Fortinet Cybersecurity Engineer
3. Information Security Analyst
4. Cyber Security Incident Response Analyst
5. Vulnerability Analyst and Penetration Tester
6. Forensics Investigator

INFRASTRUCTURE & SECURITY TRACK

1. Huawei Network Administrator

A Huawei Network administrator is capable of the following using Huawei technologies; Installing and configuring Huawei network devices, such as routers, switches, firewalls, access points, etc., Monitoring and optimizing network performance and availability using various tools and methods, Troubleshooting and resolving network issues, such as connectivity, security, configuration, etc., Implementing and enforcing network security policies and standards, such as encryption, authentication, authorization, etc., Updating and upgrading network software and hardware in accordance with best practices and company procedures, Documenting and reporting network configuration, status, and changes, Providing technical support and guidance to network users and other IT staff and Collaborating with other network engineers, administrators, vendors, and stakeholders on network projects and initiatives.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
HCIA Datacom Fast Track
HCIP Datacom Core
HCIP Datacom Advanced
Capstone Project

INFRASTRUCTURE & SECURITY TRACK

2. Fortinet Cybersecurity Engineer

Fortinet Cybersecurity Engineer is capable of the following using Fortinet technologies; planning, implementing, managing, monitoring, and upgrading security measures for the protection of the organization's data, systems, and networks. Troubleshooting security and network problems and responding to all system and/or network security breaches, Configuring and implementing intrusion detection systems and firewalls, Maintaining firewalls, virtual private networks, web protocols, and email security, Creating virus and threat detection systems and performing vulnerability and risk assessments, Testing and checking the system for weaknesses in software and hardware, Developing and implementing security policies and standards, such as encryption, authentication, authorization, etc., Updating and upgrading security software and hardware in accordance with best practices and company procedures, Documenting and reporting security configuration, status, and incidents, Providing technical support and guidance to security users and other IT staff, Collaborating with other security engineers, administrators, vendors, and stakeholders on security projects and initiatives.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Cisco CCNA Routing and Switching (200-301 CCNA)
FCP Network Security - FortiGate Administration 7.4
FCP Network Security - FortiManager Administration 7.4
Capstone Project

INFRASTRUCTURE & SECURITY TRACK

3. Information Security Analyst

Encrypt data transmission to conceal confidential information as it is being transmitted and keep out tainted digital transfers. Advises, implements and maintains security systems. Analyzes and investigates intruder detection or other security systems. Encrypt data at rest to conceal confidential information.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
SOC Essential Concepts
Security Operations and Management
Vulnerability management
Understanding Cyber Threats, IoCs and Attack Methodology
Incidents, Events and Logging
Incident Detection with Security Information and Event Management (SIEM)
Incident response & management
Reporting & communication
Capstone Project

Prerequisite:
- IT/Analyst Professionals with basic knowledge on IT/Cyber Security, Computer Hardware, Networking, and basic Security Knowledge.
- Knowledge of Threat Vectors

INFRASTRUCTURE & SECURITY TRACK

4. Cyber Security Incident Response Analyst

A Cyber Security Incident Response Analyst is capable of the following; responding to incidents and threats tracked by the Incident Response Management System. Incidents may include phishing, network, email, IDS, or antivirus alerts, Performing log, vulnerability, or compliance analysis/remediation, Collection, collating, and secure handling of evidence for storage and/or processing, Drafting reports and security briefs as needed, and Participation in intra-departmental meetings and projects in support of Network, Infrastructure, and Support groups as assign.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Intro to Threats, Vulnerabilities, and Incident
Assessing Threats
Finding Security Vulnerabilities
Fixing Security Vulnerabilities
Preparing for Inevitable Attacks
Project: Navigating a Cybersecurity Incident
Capstone Project

Prerequisite:
- Network basics

INFRASTRUCTURE & SECURITY TRACK

5. Vulnerability Analyst and Penetration Tester

A Vulnerability Analyst / Penetration Tester is capable of the following; Ensuring that all Network security tests are conducted within the framework set by Mastercard, Ensure that all test cases and tools are used appropriately for testing various network segment types, Ensuring that all help and guidance is provided to development teams on the vulnerabilities identified in their applications while performing security testing, Identify improvement areas in the security testing domain and implement learnings for the Globally located team, Coordinate with application development teams on their demands for security testing and provide a seamless experience with testing and reporting of penetration tests, and Working with a global team spread across time-zones and geographies.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Intro to Penetration Testing & Red Team Operations
Reconnaissance
Scanning & Research
Gaining Access
Maintaining Access
Covering Tracks & Reporting
Capstone Project

Prerequisite:
- Network basics

INFRASTRUCTURE & SECURITY TRACK

6. Forensics Investigator

A Forensics Investigator is capable of the following; Cover major forensic investigation scenarios and provide hands-on experience with forensic techniques and tools, Equip participants (law enforcement, system administrators, security officers, military personnel, legal professionals, bankers, and security professionals) with skills for effective digital forensics investigations, and Present a methodological approach to computer forensics, including searching, seizing, chain-of-custody, acquisition, preservation, analysis, and reporting of digital evidence.
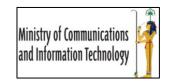
The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
Computer Forensics in Today's World
Computer Forensics Investigation Process
Understanding Hard Disks and File Systems
Data Acquisition and Duplication
Defeating Anti-forensics Techniques
Windows, Linux and Mac Forensics
Network, Database, and Malware Forensics
Investigating Web Application Forensics
Investigating Email Crimes
Capstone Project

Prerequisite:
- Basic knowledge of IT/Cyber Security, Computer Forensics, and Incident Response.
- Knowledge of Threat Vectors.
- Penetration Testing knowledge is advantageous.

Management & ERP TRACK

The field of Enterprise Resource planning is concerned with the study of various techniques for organizing and managing the personnel and resources of companies with high efficiency, improving operations, achieving automation, and making decisions based on data and various scientific and technological methods that have boomed in recent years. The importance of studying this specialization lies in increasing the income of individuals and companies through various job possibilities opening up in the business and technology sectors, as institutions increasingly apply ERP systems locally and globally. Also, the experiences gained from the study contribute to the success of the institutions, and this success is represented by increasing their competitiveness with international companies.

Management & ERP

1. Odoo Application Consultant
2. SAP S/4HANA End To End Business Process Specialist
3. SAP S/4HANA Digital Accounting Specialist
4. MSD Financial Application Consultant
5. MSD HCM Consultant

The educational objectives of the program are:
- The study provides a comprehensive understanding of administrative processes and scientific methods for improving them, and enhances problem-solving skills using various algorithms.
- The study equips individuals with the necessary skills to adapt to digital transformation and collaborate and communicate effectively within multidisciplinary teams.
- Enabling organizations to manage their daily tasks and internal and external resources with high efficiency.
- Learn about and use the different technologies used globally, such as MS Dynamics 365, and Odoo.

Management & ERP TRACK

1. Odoo Application Consultant

The target job for an Odoo Application Consultant involves designing, implementing, and deploying software for applications in the Odoo ERP suite. They specialize in developing strategies to optimize a company's management processes using Odoo tools and modules to ensure efficiency and smooth workflow. The primary qualifications to become an Odoo consultant include a bachelor's degree in computer science or a relevant field and experience working with the Odoo ERP suite. An Odoo consultant may collect and analyze business requirements, write business requirement documents, and other functional and technical documents.

The technical study plan proposed for this job profile is provided below:

Contents
Prompt Engineering
ERP Business Introduction and ERP Accounting Concepts
Practicing General Ledger
Practicing Accounts Payable and Payment
Practicing Receivables and Collections
Practicing Cash Management
Practicing Fixed Assets
ERP Introduction and Consulting Role
Outlining Odoo ERP Components
Odoo Implementation Life Cycle Concepts
Accounting Implementation Management
Inventory Implementation Management
Purchasing Cycle Implementation Management
Human Resources Cycle Implementation Management
Life Cycle Review Project (Tips & Tricks)
Workshop & Project: complete Financials Implementation Cycle

Prerequisite : Grads only

Management & ERP TRACK

2. SAP S/4HANA End-to-End Business Processes Specialist

In today's dynamic business landscape, enterprises must optimize and integrate their processes to remain competitive. SAP S/4HANA provides a comprehensive suite of intelligent business solutions that streamline operations across various departments, enhancing efficiency, visibility, and decision-making.

This course introduces the fundamental end-to-end business processes in SAP S/4HANA, covering key modules such as Finance, Procurement, Manufacturing, Sales, and Supply Chain Management. Participants will gain an understanding of how different business functions are interconnected within SAP S/4HANA, ensuring seamless operations and improved business outcomes.

Contents
Introduction to SAP S/4HANA and ERP concept
The Intelligent Enterprise with SAP S/4HANA
Central Concepts and Objects in SAP Intelligent Enterprise
Performing the Record-to-Report Process, Focusing on Financial and Management Accounting
Performing the Recruit-to-Retire Process, Focusing on Human experience Management
Performing the Source-to-Pay Process, Focusing on Procurement
Performing the Design-to-Operate Process, Focusing on Production
Performing the Lead-to-Cash Process, Focusing on Sales
Performing the Lead-to-Cash Process, Focusing on Service
Prompt Engineering
Capstone Project

Prerequisite: Graduate only

Management & ERP TRACK

3. SAP S/4HANA Digital Accounting Specialist

SAP S/4HANA Financial Accounting (FI) is a core module in SAP's ERP system, designed to help organizations manage their financial transactions and reporting efficiently. This course provides business users with hands-on knowledge of SAP S/4HANA FI, focusing on daily financial operations, financial reporting, and period-end closing activities.

Contents
Introduction to SAP S/4HANA Financial Accounting
General Ledger (G/L) Accounting
Accounts Payable (AP) Processing
Accounts Receivable (AR) Processing
Asset Accounting (AA)
Bank Accounting & Cash Management
Financial Closing and Reporting
Controlling (CO) Overview
Security and User Authorizations
Prompt Engineering
Capstone Project

Prerequisite: Graduate only

Management & ERP TRACK

4. MSD Financial Application Consultant

MSD Financials consultant is responsible for designing, implementing, and deploying software for applications in the MSD Financials suite. They specialize in developing strategies to optimize a company's MSD software projects, ensuring efficiency and smooth workflow. The primary qualifications to become an MSD Financials consultant include experience working with applications in the MSD Financials suite. They may also collect and analyze business requirements for MSD financial projects, write business requirement documents, and other functional and technical documents.

The technical study plan proposed for this job profile is provided below:

Contents
ERP Introduction and ERP Accounting Concepts
ERP Implementation and Consulting Role
MSD General Ledger Implementation
MSD Accounts Payable Implementation
MSD Accounts Receivable Implementation
MSD Fixed Assets Implementation
MSD Cash Management Implementation
Budgeting and Forecasting
Financial Reporting and Analysis
Compliance and Security
Periodic Processes and Closing Procedures
Prompt Engineering
Capstone Project

Prerequisite:
5 years of experience in financial accounting.

Management & ERP TRACK

5. MSD HCM Application Consultant

MSD HCM consultant is responsible for providing exceptional consulting services to clients, helping them gain the optimum benefit from their MSD HCM software projects by applying and integrating client Human resource management rules and reporting into MSD software. MSD HCM consultants must possess a range of skills, including technical, functional, and business skills, to be successful in their role.

The technical study plan proposed for this job profile is provided below:

Contents
ERP Business Introduction and ERP HCM Concepts
Advanced Organization Administration
Recruitment and Onboarding
Personnel Management
Compensation and Benefits
Performance Management
Compliance and Reporting
Prompt Engineering
Capstone Project

Prerequisite:
5 years of experience in human resources management