DIGITAL EGYPT PIONEERS INITIATIVE (DEPI)
PROFESSIONALS CATALOG
2024

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Introduction

DEPI includes 7 technology tracks (specialties) that cover highly demanded jobs. Those tracks are:

1. SOFTWARE DEVELOPMENT
2. DIGITAL ART
3. AI & DATA SCIENCE
4. DATA ANALYTICS
5. INFRASTRUCTURE & SECURITY
6. EMBEDDED SYSTEM
7. 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 the 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 necessary prerequisites.
- Guide trainees on how to develop a professional and product quality module.
- Explain different aspects of product development life cycle (planning, design, development, integration, testing) that help trainees succeed in job market
- Involve trainees in Hands on experience / 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, and DevOps, software testing.

Software Development

1. DevOps Engineer
2. AWS Cloud Specialist
3. Microsoft Power Developer
4. React web developer
5. Frontend Developr
6. Mobile App Developer
.7. Net Web Developer
8. PHP Web Developer
9. Software Tester
10. Microsoft Azure DevOps Engineer
11. Unity Developer
12. Low-Code App Developer
13. Google Cloud Specialist
14. Azure Cloud Specialist

SOFTWARE DEVELOPMENT TRACK

1. DevOps Engineer

A DevOps Engineer is responsible for smoothing 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:

Course Contents	Hours
DevOps Perquisites	9
DevOps Essentials	9
Managing Source Code - Git and GitHub	12
Understanding and using Build tools	12
Configuration Management using Ansible	9
Containerization basics using Docker	12
Docker Advanced	12
Continuous Integration using Jenkins	9
Introduction to Kubernetes	12
Continuous Monitoring using Prometheus	12
DevOps Project "Build Real World application"	9
Define the AWS Cloud	12
Explain the different cloud architecture design principles	12
Terraform	12
Setting Resource Dependencies	9
Total	162

SOFTWARE DEVELOPMENT TRACK

2. AWS Cloud Specialist

An AWS Cloud Developer is responsible for setting up, maintaining, and evolving the cloud infrastructure of web applications. They are expected to understand all the core AWS services and have experience with creating, debugging, and managing AWS infrastructure. They are also expected to understand the current infrastructure stack, scalability, and reliability goals.

The technical study plan proposed for an AWS Developer Associate is provided below:

Course Contents	Hours
AWS Cloud Foundations	35
AWS Cloud Services	70
AWS Cloud Security Foundations	35
AWS Academy Cloud Web Application Builder - PROJECT	20
Total	160

SOFTWARE DEVELOPMENT TRACK

3. Microsoft Power Developer

The Microsoft Power Developer course offers a comprehensive exploration into leveraging the suite of Microsoft Power Platform tools to create robust and dynamic applications, automate workflows, and analyze data efficiently. Geared towards developers, this course delves deep into Power Apps, Power Automate, Power BI, and Power Virtual Agents to empower participants with the skills needed to design, build, and deploy scalable solutions within the Microsoft ecosystem.

Course Contents	Hours
Understanding end-to-end application development and deployment within the Microsoft Power Platform	30
Mastery of Power Apps development for creating tailored business applications.	60
Proficiency in creating automated workflows using Power Automate	30
Advanced data analysis and visualization skills using Power BI.	30
Creating intelligent chatbots using Power Virtual Agents.	40
Total	160

SOFTWARE DEVELOPMENT TRACK

4. React Web Developer

A React web Developer is responsible for designing, developing, and maintaining fully functional software applications. The courses cover a range of technologies required for cloud hosting, web development, front-end and back-end development. A successful Full Stack Developer should have a strong understanding of these technologies and be able to use them to develop and deploy complex applications in the cloud.

Course Contents	Hours
Introduction to Cloud Computing	12
Introduction to Web Development with HTML, CSS, JavaScript	15
Getting Started with Git and GitHub	12
Developing Front-End Apps with React	60
Developing Web Applications with Python and Flask	20
Introduction to Containers w/ Docker, Kubernetes	15
Application Development using Microservices and Serverless	15
Full Stack Web Development Project	15
Total	164

SOFTWARE DEVELOPMENT TRACK

5. Frontend Developer

A UI/UX Developer is responsible for applying interactive and visual design principles on websites and web applications for a positive and cohesive user experience. This job profile covers a range of technologies such as HTML, CSS, JavaScript, jQuery, Angular, and WordPress. A successful UI/UX Developer should have a strong understanding of these technologies and be able to use them to design and develop responsive and user-friendly websites and web applications.

Course Contents	Hours
HTML5 Essentials	27
CSS Essentials	27
Principles of UX/UI Design	24
JavaScript Fundamentals	36
jQuery & Ajax	24
Bootstrap	27
Total	165

SOFTWARE DEVELOPMENT TRACK

6. Mobile App Developer

A Mobile Application Developer is responsible for designing, developing, and maintaining mobile applications for Android and iOS platforms. 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 responsive and user-friendly mobile applications.

Course Contents	Hours
Java Programming Fundamental & OOP	21
kotlin Programming	30
Android Application Development	42
Android Security Essentials	18
Flutter Applications Development for IOS & Android	51
Total	162

SOFTWARE DEVELOPMENT TRACK

7. .Net Web Developer

Microsoft Web Developer focuses on Microsoft technologies. Job responsibilities could include designing and developing web applications using Microsoft technologies such as .net and C#, analyzing user needs, recommending upgrades to existing applications, testing and updating web applications, and collaborating with other developers and designers to get projects done.

Course Contents	Hours
Introduction to SQL Server Programming	21
Programming in C#	24
Programming in HTML5, JavaScript & CSS3	24
.Net Core Web API	32
Developing .NET Core MVC Web Applications	32
Developing .Net Core 8 Blazor Server PWA with Blazorise	32
Total	165

SOFTWARE DEVELOPMENT TRACK

8. PHP Web Developer

A Full Stack PHP Web Developer is responsible for designing, developing, and maintaining web applications using PHP and related technologies. A successful Full Stack PHP Web Developer should have a strong understanding of these technologies and be able to use them to design and develop responsive and user-friendly web applications. Job responsibilities could include analyzing user needs, recommending upgrades to existing applications, testing and updating web applications, and collaborating with other developers and designers to get projects done.

Course Contents	Hours
HTML5 & CSS Fundamentals	12
JavaScript Fundamentals	12
UI/UX Design	12
MySQL Database Development	12
PHP Programming	21
Laravel PHP Framework	21
Introduction to WordPress	24
Advanced WordPress Development	24
Essential WordPress Plugins	24
Total	162

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SOFTWARE DEVELOPMENT TRACK

9. 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.

Course Contents	Hours
Testing fundamentals	12
Writing tests for a variety of quality intent, including code coverage, defect finding, and statistical testing	18
Developing test plans to guide the testing stage of the software development lifecycle	18
Creating defect reports	12
Black-box and White-box Testing	36
Test automation using EdgeDriver C#	36
Web and Mobile Testing with Selenium	30
Total	162

SOFTWARE DEVELOPMENT TRACK

10. Microsoft Azure DevOps Engineer

Microsoft DevOps Engineer is responsible for smoothing 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.

Course Contents	Hours
Introduction to Azure DevOps	9
Version Control with Azure Repos	18
Continuous Integration with Azure Pipelines	30
Continuous Deployment & Release Management	18
Agile Planning and Work Management with Azure Boards	15
Package Management with Azure Artifacts	9
Ensuring Quality with Testing Tools	9
Infrastructure as Code with Azure Resource Manager	18
Monitoring and Feedback with Azure Monitor	18
Security and Compliance	18
Total	162

SOFTWARE DEVELOPMENT TRACK

11. Unity Developer

Develop, implement, document, and maintain game code. Identifies, implements, and maintains bug tracking tools. Work with non-technical colleagues to ensure successful transfer of ideas into code. Provide user support.

Course Contents	Hours
Unity Programming for game development	12
Introduction to C# Programming and Unity	9
More C# Programming and Unity, C# Class Development	9
Intermediate Object-Oriented Programming for Unity Games	12
About Unity Versions and Creating A New Project	12
Introduction To Unity's Interface, Starting with Unity's Basics	9
Rigid Bodies and Colliders	9
Audio Source and UI Elements	9
Moving Our Character with Code	12
Variables, Operations, Functions, Conditional Statements, Loops	12
Coroutines, Classes, Inheritance, Accessibility Modifiers (Data Encapsulation)	12
Getting Components, Monster Chase Game Intro, Importing Assets	9
Creating Player Animations, Sorting Layers and Order In Layer, Creating The Game Background	9
Player Movement, Animating Player Via Code, Camera Follow Player	6
Enemy Animations, Enemy Script, Enemy Spawner, Enemy Collision	9
The Collector Script, Unity's UI System, Creating Main Menu, Navigating Between Scenes	9
Selecting A Character, Static Variables, Singleton Pattern	9
Events and Delegates, Instantiating The Selected Character, Finishing a Game	9
Total	177

SOFTWARE DEVELOPMENT TRACK

12. Low-Code App Developer

Enable individuals, regardless of their coding expertise, to design, develop, and deploy software applications rapidly and efficiently using visual development environments and drag-and-drop functionalities. This democratizes application development, enhancing innovation and agility within organizations.

Course Contents	Hours
Introduction to Low-code / No-code Development	12
Introduction to Bubble.io	18
Develop a full website using Bubble.io	42
Cross-platform Application Design	12
Introduction to FlutterFlow	18
Develop a full Mobile App using FlutterFlow	42
Deployment and Maintenance of Low-code Apps	18
Total	162

SOFTWARE DEVELOPMENT TRACK

13. Google Cloud Specialist

Equip individuals with skills in managing and utilizing a wide array of cloud services for data storage, computing, machine learning, and application development, thereby enabling them to build scalable, secure, and efficient solutions in the cloud.

Course Contents	Hours
Introduction to Cloud Computing and GCP	16
GCP Core Infrastructure	24
Managing GCP Services with Console and gcloud	30
Data Management and Databases in GCP	30
Developing and Deploying Applications on GCP	30
GCP's Big Data and Machine Learning Services	30
Total	160

SOFTWARE DEVELOPMENT TRACK

14. Azure Cloud Specialist

Azure cloud specialist is a skilled professional responsible for leveraging Microsoft Azure's cloud services to build, deploy, and maintain scalable applications. These developers possess a strong understanding of Azure services, tools, and development frameworks necessary to create cloud-native solutions. Their primary focus involves designing and implementing applications using Azure services like Azure App Service, Azure Functions, Azure Storage, Azure SQL Database, Azure Logic Apps, and more.

Course Contents	Hours
Azure Fundamentals	16
Managing Virtual Machines & Networking using Azure	24
Managing App Services & App Service Plans	24
Managing SQL, MySQL, PostgresSQL Database	24
Managing CosmosDB & MongoDB	24
Managing Azure Storage Accounts (Blob Storage)	24
Azure IAM, Security, & Locks	24
Total	160

DIGITAL ARTS TRACK

Digital Arts enables artists to express themselves in new and innovative ways using technology and digital tools and employing them innovatively in their artistic creations, which opens new doors for expression and innovation in the art world.

The educational field revolves around enabling students to grow as specialized digital artists, who can apply their skills in producing innovative and high-quality works of art using modern technologies in this field, such as dealing with software and applications that contribute to the creation of works of art, such as photo and video editing programs, and 3D design programs. and digital drawing tools.

The track is concerned with exploring and integrating cutting-edge technology with a focus on its impact on the development of artistic works. It means thinking about how technology can be used to enhance artistic expression and provide new experiences to the public. For example, virtual and augmented reality technologies can be used to create distinctive and immersive interactions in artworks.

The educational objectives of the program are:

- Providing an educational environment that includes comprehensive and effective knowledge in the field of digital arts. This includes providing students with detailed knowledge about the concepts and foundations of digital arts and its development.
- Equipping students with the practical skills necessary to work in the digital arts industry. These skills include using various software and digital tools, developing 2D and 3D artwork, and the ability to interact with advanced technology.

Digital Arts

1. Digital Marketing Specialist
2. Autodesk Maya Professional/Character Designer
3. Unity Designer
4. UI & UX Web Designer
5. Adobe Motion Graphics Designer
6. Adobe Video Production Specialist
7. Adobe Graphics Designer
8. Autodesk 3D Designer
9. Autodesk Fusion 360 Engineer

DIGITAL ARTS TRACK

1. Digital Marketing Specialist

Digital Marketing Specialist is responsible for Creating and Executing Digital Marketing Campaigns, Developing Visual Assets for Digital Campaigns, Administering Websites & Publish Content, Monitoring & Optimizing Marketing Campaigns and Ad Copywriting & Content Creation.

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

Course Contents	Hours
Google Digital Marketing & E-commerce Professional	125
Foundations of Digital Marketing and E-commerce	20
Attract and Engage Customers with Digital Marketing	20
From Likes to Leads: Interact with Customers Online	16
Think Outside the Inbox: Email Marketing	14
Assess for Success: Marketing Analytics and Measurement	20
Make the Sale: Build, Launch, and Manage E-commerce Stores	25
Satisfaction Guaranteed: Develop Customer Loyalty Online	10
Aleph Digital Ads Creator	24
Final Project	15
Total	164

Prerequisite:
Graphic Design Fundamentals, Photoshop & Illustrator Fundamentals.

DIGITAL ARTS TRACK

2. Autodesk Maya Professional / Character Designer

Maya is for creating 3D models and characters. Through practical exercises and projects, you gain proficiency in 3D modeling techniques, character animation, and the application of textures and materials. The course aims to equip students with the foundational knowledge and skills required to embark on a career in 3D and character design, enabling them to produce high-quality 3D models and animations suitable for various industries, including animation, gaming, Television, Advertising, and film.

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

Course Contents	Hours
Exploring Maya Interface	9
Polygon Modeling	12
NURBS Curves and Surfaces	12
UV Mapping	11
Shading and Texturing	12
Animation	15
Rigging, Constraints, and Deformers	15
Paint Effects	9
Rendering	9
Particle System	9
Fluids	9
nHair and Xgen	9
Bifrost	9
Bullet Physics and Motion Graphics	9
Final Project	15
	164

Pre-requisite:
Graphic Design Fundamentals, Photoshop & Illustrator Fundamentals.

DIGITAL ARTS TRACK

3. Unity Designer

Create detailed concept art for technical 3D artists to reference and capture both imagination and accuracy. Team up with game designers, UX/UI artists, and engineers in creating fun and scalable games.

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

Course Contents	Hours
Interface and UI	8
Navigation and Tools	8
Game Objects, Components and Prefabs	8
Mesh Collider and Rigidbody	8
FBX and Textures Import	10
Materials	10
Terrain	12
3d Character Animations	16
Animation Retargeting	10
Skybox and Environment maps	10
Lights and Reflection Probe	9
Post Processing	9
Camera and Cinemachine	12
Particle System	9
Fundamentals for Unity Developing	10
Final Project	15
Total	164

Prerequisite:
3D Graphic Design Fundamentals, Last year of college or Graduate.

DIGITAL ARTS TRACK

4. UI & UX Web Designer

UI & UX designers create the user interface for an app, website, or other interactive media. Their work includes collaborating with product managers and engineers to gather requirements from users before designing ideas that can be communicated using storyboards. They also process flows or sitemaps. Large job opportunities in technology companies, E-Commerce and Retails.

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

Course Contents	Hours
Introduction to UI and UX Design	6
Evaluating Interactive Design	10
Applied Design Fundamental	15
Designing your UI	24
Create a Figma account and learn about some of the main features of Figma.	27
Add pages to the frame in Figma.	13
Develop a plan for how to collaborate with your team, share the design and learn about the levels of access to grant in Figma.	12
Adobe Illustrator (for Web)	21
Adobe Photoshop (for Web)	21
Final Project	15
Total	164

Prerequisite:
- None.

DIGITAL ARTS TRACK

5. Adobe Motion Graphics Designer

A motion graphics designer works with animation, audio, and visual effects to create moving content and graphics for various media, such as television, the internet, and film. Motion graphic designers work with creative teams to incorporate design elements into a project.

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

Course Contents	Hours
Adobe After effect	77
Adobe Premiere Pro Fundamentals	15
Maxon Cinema 4D Fundamentals	21
Adobe Audition	9
Adobe Character Animation	15
Adobe Illustrator (for Motion)	12
Final Project	15
Total	164

Prerequisite:
Graphic Design Fundamentals, Photoshop & Illustrator Fundamentals.

DIGITAL ARTS TRACK

6. Adobe Video Production Specialist

Adobe video production specialist works on video and sound projects, including selecting program format for final output, capturing/importing media, organizing raw media, editing footage and sound files, creating and inserting static and motion graphics, titling, adding music/voice-over/sound effects, media management and archiving project media.

Pre-requisite: Graphic Design Fundamentals, Photoshop & Illustrator Fundamentals.

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

Course Contents	Hours
Adobe Premiere Pro	60
DaVinci Resolve	50
Adobe Audition	9
Adobe After Effect (for video production)	30
Final Project	15
Total	164

DIGITAL ARTS TRACK

7. Adobe Graphics Designer

Graphic designers create visual text and imagery concepts, by hand or using computer software, to communicate ideas that inspire, inform, or captivate consumers. They develop the overall layout and production design for advertisements, brochures, magazines, and corporate reports, etc.

Pre-requisite: None.

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

Course Contents	Hours
Adobe Photoshop cc	60
Adobe Illustrator	45
Adobe InDesign	32
Adobe Dimension	12
Final Project	15
Total	164

DIGITAL ARTS TRACK

8. Autodesk 3D Designer

A 3D Artist builds 3D models of products, environments, and more. They use their ability to create photo realistic materials, lighting, and rendered images for various uses including marketing and advertisements.

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

Course Contents	Hours
Autodesk 3D Max interface and workflow.	3
Assembling files by importing, linking, or merging	6
3D modeling with primitives and 2D objects	12
Using modifiers to create and modify 3D objects	9
Materials and maps	9
Autodesk 3ds Max lighting	9
Working with cameras and exposure control	6
Rendering using various renderers, such as Scanline, ART, and Arnold	5
Animation for visualization	9
Make 3d models of any complexity	15
Use 3ds Max Physical Camera settings to improve composition	3
Use VRay lights, including HDRI dome lights, to create natural looking lighting	12
Create custom advanced textures / materials in Photoshop and VRay	9
Atmospherics, lens flare and light bloom, all within 3ds Max / VRay	9
Tools, tips and tricks to make professional & photorealistic images.	9
Achieve perfect light exposure for your renderings	6
UVW mapping for complex models	9
Understand VRay settings that contribute to photorealism, speed and quality	6
Image pop with professional post-processing techniques in Photoshop	3
Final Project	15
Total	164

Pre-requisite:
Graphic Design Fundamentals, Photoshop & Illustrator Fundamentals.

DIGITAL ARTS TRACK

9. Autodesk Fusion 360 Engineer

Delves into essential and advanced AutoCAD skills, covering 2D/3D design, precise drafting, and collaboration. Fusion 360 for parametric 3D modeling, simulations, and practical design projects, catering to the needs of engineering and architecture. Gain crucial skills for designing and simulating engineering models, prototypes, and products using Fusion 360. Learn to craft 3D models, conduct simulations, and analyze designs for functionality and manufacturability. Many job opportunities as Mechanical & Industrial designer, Architectural drafter, or even Electrical CAD designer.

Pre-requisite: Practical knowledge: Engineering perspective, project drawing.

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

Course Contents	Hours
AutoCAD 2023: Essentials	40
AutoCAD 2023: 3D Drawing and Modeling	25
Autodesk Fusion 360: Introduction to Parametric Modeling	26
Autodesk Fusion 360: Introduction to Sculpting with T-Spline Surfaces	26
Autodesk Fusion 360: Practice and Applications	32
Final Project	15
Total	164

AI & DATA SCIENCE TRACK

This track primarily focuses on applying data science and machine learning techniques to solve real-world challenges and problems.

The objectives of the program are:

Gain the practical experience needed to use artificial intelligence to solve problems

- Familiarity with a wide range of topics related to this field, for example: machine learning, deep learning, language processing, and others
- The ability to deal with data in its various forms, collect it, and extract data in easier images for processing by various programs
- 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
- Participate in the design and implementation of high-quality and reliable intelligent systems
- The ability to evaluate and analyze problems as well as propose solutions related to the development of artificial intelligence systems
- The ability to develop programs that run on different computers in terms of architecture and technology used
- The ability to define the infrastructure needed to store big data and develop competitive AI solutions
- Applying artificial intelligence techniques to contribute to overcoming emerging humanitarian challenges

ARTIFICIAL INTELLIGENCE

1. IBM Data Scientist
2. Microsoft Data Scientist
3. Microsoft Data Engineer
4. Huawei Machine Learning Engineer
5. Microsoft Machine Learning Engineer
6. AWS Machine Learning Engineer
7. AWS AI and Data Scientist Professional
8. Generative AI Professional

AI & DATA SCIENCE TRACK

1. IBM Data Scientist

An IBM 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 customer experience and a host of other critical business insights. All this is done mostly using IBM technologies.

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

Course Contents	Hours
What is Data Science?	6
Tools for Data Science	15
Data Science Methodology	12
Python for Data Science, AI & Development	27
Python Project for Data Science	12
Databases and SQL for Data Science with Python	30
Data Analysis with Python	15
Data Visualization with Python	15
Machine Learning with Python	15
MLOps Tools, MLflow and Hugging Face	12
Applied Data Science Capstone	15
Total	174

AI & DATA SCIENCE TRACK

2. Microsoft Data Scientist

A data scientist leads research projects to extract valuable information from big data and is skilled in technology, especially Microsoft technology, mathematics, business, and communications. Organizations use this information to make better decisions, solve complex problems, and improve their operations. By revealing actionable insights hidden in large datasets, a data scientist can significantly improve his or her company's ability to achieve its goals. That's why data scientists are in high demand and even considered "rock stars" in the business world.

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

Course Contents	Hours
Microsoft SQL Essentials	24
Python Programming Fundamentals	36
Statistics and Linear Algebra Basics	21
Data Science with Python	24
Machine Learning	24
MLOps Tools, MLflow and Hugging Face	12
Azure Data Scientist Associate	33
Total	174

AI & DATA SCIENCE TRACK

3. 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, and DevOps roles.

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

Course Contents	Hours
Microsoft SQL Essentials	24
Implementing a SQL Data Warehouse	36
Python Programming Fundamentals	30
Introduction to Agile Development and Scrum	24
Azure Data Fundamentals	24
MLOps Tools, MLflow and Hugging Face	12
Azure Data Engineer Associate	24
Total	174

AI & DATA SCIENCE TRACK

4. Huawei Machine Learning Engineer

Using Huawei technology mainly, Huawei machine learning engineer designs software, predictive models, programs and algorithms that help machines identify patterns and take actions independently without receiving direction to perform these specific tasks.

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

Course Contents	Hours
HCIA-AI	39
HCIP-AI El Developer	81
MLOps Tools, MLflow and Hugging Face	12
Build Basic Generative Adversarial Networks GANs	21
Natural Language Processing with Attention Models	21
Prompt Engineering	6
Total	180

AI & DATA SCIENCE TRACK

5. Microsoft Machine Learning Engineer

Microsoft machine learning engineers leverage Microsoft technology to translate the raw data gathered from various data pipelines into data science models that can be applied and scaled as needed. A machine learning engineer connects that structured data to the models defined by the data scientists they work with. In addition, machine learning engineers 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:

Course Contents	Hours
Statistics and Linear Algebra Basics	18
Data Science with Python	18
Machine Learning	21
Introduction to Agile Development and Scrum	12
Azure AI Fundamentals	12
Azure AI Engineer Associate	33
MLOps Tools, MLflow and Hugging Face	12
Build Basic Generative Adversarial Networks GANs	24
Natural Language Processing with Attention Models	24
Prompt Engineering	6
Total	180

AI & DATA SCIENCE TRACK

6. AWS Machine Learning Engineer

AWS Machine learning engineers use AWS technology to work with algorithms, data, and artificial intelligence. Their tasks involve researching, building, and designing the artificial intelligence responsible for machine learning and maintaining and improving existing artificial intelligence systems. Often, a machine learning engineer will also serve as a critical communicator between other data science team members, working directly with the data scientists who develop the models for building AI systems and the people who construct and run them.

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

Course Contents	Hours
AWS Academy Cloud Foundations	36
AWS Academy Cloud Architecting	66
AWS Academy Machine Learning Foundations	36
MLOps Tools, MLflow and Hugging Face	12
AWS Academy Machine Learning for Natural Language Processing	21
Prompt Engineering	6
Total	177

AI & DATA SCIENCE TRACK

7. AWS AI and Data Scientist Professional

AWS Data scientist is skilled in using AWS technology in the study of data to extract meaningful insights for business. He should have multidisciplinary knowledge and practices from the fields of mathematics, statistics, artificial intelligence, and computer engineering to analyze large amounts of data. This analysis helps data scientists to ask and answer questions like what happened, why it happened, what will happen, and what can be done with the results.

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

Course Contents	Hours
AWS Academy Cloud Foundations	36
AWS Academy Machine Learning Foundations	36
MLOps Tools, MLflow and Hugging Face	12
AWS Academy Data Engineering	69
AWS Academy Cloud Data Pipeline Builder - PROJECT	21
Total	174

AI & DATA SCIENCE TRACK

8. Generative AI Professional

Learn the skills required to use generative AI in your professional life. Discover the fundamental ideas behind generative AI and artificial intelligence. Gain knowledge about generative AI models. Discover the moral implications of employing generative AI. Examine the effects of tools for generative AI.

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

Course Contents	Hours
AI and Generative AI models	21
Machine Learning & Deep Learning	33
MLOps Tools, MLflow and Hugging Face	15
Generative AI models	27
Build Basic Generative Adversarial Networks GANs	21
Natural Language Processing with Attention Models	24
Generative AI pipeline – projects	27
Prompt Engineering	9
Total	177

DATA ANALYTICS TRACK

The field of data analysis is the science of identifying business needs through data analysis to make informed business decisions and identify solutions to business problems in various industries.

The field of business analysis has witnessed great importance in recent years due to the boom in technology and the creation of advanced tools and techniques that help provide the best results and solutions to various organizations.

The educational objectives of the program are:
- Learning different ways of data analysis.
- 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 businesses performance and drive future planning.

Data Analytics

1. Data Analyst Specialist
2. Microsoft Power BI Engineer
3. Advanced Data Analyst Specialist

DATA ANALYTICS TRACK

1. Data Analyst Specialist

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:

Course Contents	Hours
Foundations of Data and Data Analytics	21
Make Data-Driven Decisions	21
Data Preparation for Exploration	24
Data cleaning process and organization of data	24
Data Analysis to Answer Questions	27
Data Visualization	24
Data Analysis with R Programming	36
Data Analytics Capstone: Complete a Case Study	9
Data Governance	15
Total	201

DATA ANALYTICS TRACK

2. Microsoft Power BI Engineer

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:

Course Contents	Hours
Microsoft Azure Fundamentals	18
Microsoft Azure Data Fundamentals	18
Microsoft Power BI Data Analyst	27
Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI	18
Data Visualization using Tableau	39
Data Refresh	24
Data Governance	18
Total	162

DATA ANALYTICS TRACK

3. Advanced Data Analyst Specialist

The Advanced Data Analyst Specialist role is a pivotal position within modern organizations, demanding a deep understanding of data analysis techniques, statistical methodologies, and technological tools. Professionals in this role possess expertise in extracting, interpreting, and visualizing complex data sets to derive actionable insights. They are adept at employing advanced analytical approaches such as predictive modeling, machine learning, and data mining to uncover patterns and trends that drive informed decision-making. Moreover, they collaborate across departments to communicate findings effectively, providing strategic recommendations that optimize business processes, enhance performance, and drive innovation. A strong foundation in programming languages, database management, and a keen eye for detail are essential attributes for excelling in this dynamic and challenging role.

Course Contents	Hours
Advanced data analytics	24
Python programming	30
Data into Insights	33
Statistics for Advanced Data Analytics	36
Regression Analysis	33
Machine Learning	36
Advanced Data Analytics Capstone	9
Total	201

EMBEDDED SYSTEMS TRACK

Embedded systems have been one of the hottest topics in recent years, becoming ubiquitous both in industrial settings and in everyday life. Embedded systems can be used in a wide range of applications, for example they can be used in smart homes and office work environments as well as controlling factories, transportation, cars and others.

The educational objectives of the program are:

- Providing a high-quality educational opportunity in the field of embedded systems
- Provide students with relevant theoretical knowledge and practical skills to become specialists in the field of embedded systems
- Learn about the tools and techniques most used in this field

Embedded Systems

1. RTOS & AUTOSAR Engineer
2. Embedded Linux Engineer
3. Embedded Systems using IoT and AWS

EMBEDDED SYSTEMS TRACK

1. RTOS & AUTOSAR Engineer

An RTOS & AUTOSAR Engineer is typically responsible for the design, development, and validation of automotive embedded systems software. He/she also works on a variety of vehicle features such as starting, locking, lighting, alarms, and battery management systems and performs AUTOSAR embedded software integration, troubleshoot and root cause analysis of related problems.

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

Course Contents	Hours
AUTOSAR Layered Architecture	10
AUTOSAR Configuration Tools	10
AUTOSAR Communication Stack	20
AUTOSAR System Services and OS Stack	10
AUTOSAR Memory Stack	10
AUTOSAR Watchdog Stack	5
AUTOSAR Diagnostics Stack	10
AUTOSAR Input/Output Stack	5
AUTOSAR Application and RTE	10
Introduction to Real-Time Operating Systems (RTOS)	20
RTOS Terminologies and Building Blocks	10
RTOS Inter-Process Communication	10
FreeRTOS	5
Designing a Real-Time System	10
Scheduling and Types of Schedulers	5
Schedulers In-Practice	5
RTOS Run-Time Analysis	25
Porting FreeRTOS	10
Total	200

Pre-requisite:- Embedded C, OS fundamentals, Linux experience

EMBEDDED SYSTEMS TRACK

2. Embedded Linux Engineer

An Embedded Linux Engineer is typically responsible for developing and maintaining embedded Linux systems including developing low-level software such as boot and drivers with strong embedded constraints, often security and sometimes real-time. He/she also work on testing developed modules by running tests and maintaining the delivered code.

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

Course Contents	Hours
Introduction to Embedded Systems	15
Linux Fundamentals	15
Bash	15
Embedded Linux Architecture	15
Linux Kernel Configuration and Customization	15
Embedded Linux Development Tools	10
Linux Networking and Connectivity	10
Embedded Linux Security	10
Introduction to Real-Time Systems and their Requirements	10
Yocto Project and Build Systems	20
Embedded Linux Application Development	15
Project and Building Embedded Linux Systems	50
Total	200

Pre-requisite: Experience in Embedded C, OS fundamentals, Linux

EMBEDDED SYSTEMS TRACK

3. Embedded Systems using IoT and AWS

An Embedded Systems using IoT is typically responsible for developing and maintaining smart solutions using IoT, programing embedded sensors and devices, controlling and managing of embedded IoT devices in the cloud, and managing and applying Analytics on sensor data.

Pre-requisite:
- Embedded C, Embedded systems, and microcontrollers

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

Course Contents	Hours
Introduction to IoT	10
Embedded Systems with IoT	10
IoT concepts	30
AWS	100
Project and Building Systems	50
Total	200

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. Cisco Network Administrator
2. Cisco Cybersecurity Engineer
3. Fortinet Cybersecurity Engineer
4. Data Center Administrator
5. Huawei Network Administrator
6. Google Technical Support Specialist
7. Azure Cloud Solution Admin & Architect
8. AWS Cloud Solution Admin & Architect
9. Cyber Security Incident Response Analyst
10. Vulnerability Analyst / Penetration Tester
11. Information Security Analyst

INFRASTRUCTURE & SECURITY TRACK

1. Cisco Network Administrator

A Cisco Network Administrator is capable of the following using Cisco technologies; Designing, installing, configuring, and maintaining Cisco network devices, such as routers, switches, firewalls, access points, etc., Troubleshooting and resolving network issues, such as connectivity, performance, security, etc., Monitoring and optimizing network performance and availability using various tools and methods., 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, 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:

Course Contents	Hours
Cisco CCNA Routing and Switching (200-301 CCNA)	120
Cisco CCNP Enterprise (350-401 ENCOR)	60
Total	180

INFRASTRUCTURE & SECURITY TRACK

2. Cisco Cybersecurity Engineer

A Cisco Cybersecurity Engineer should be capable of the following using Cisco technologies; Planning, implementing, managing, monitoring, and upgrading security measures, in accordance with best practices and company procedures, for the protection of the organization's data, systems, and networks, such as encryption, authentication, authorization, etc., Troubleshooting security and network problems and responding to all system and/or network security breaches, Configuring and implementing intrusion detection systems and firewalls, documenting and reporting security configuration, status, and incidents, Maintaining firewalls, virtual private networks, web protocols, and email security and Creating virus and threat detection systems, performing vulnerability and risk assessments, and testing and checking the system for weaknesses in software and hardware.

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

Course Contents	Hours
Cisco CCNA Routing and Switching (200-301 CCNA)	120
Cisco CyberOps Associate (200-201 CBROPS)	60
Total	180

INFRASTRUCTURE & SECURITY TRACK

3. 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:

Course Contents	Hours
Cisco CCNA Routing and Switching (200-301 CCNA)	120
Fortinet NSE 4 - FortiOS 7.2 (NSE4_FGT-7.2)	48
Total	168

INFRASTRUCTURE & SECURITY TRACK

4. Data Center Administrator

A Data Center Administrator is capable of Monitoring server performance to ensure that it meets the organization's standards for speed and quality, Installing and configuring new network components such as switches, routers, firewalls, intrusion detection systems (IDS), load balancers, VoIP phones, wireless access points (APs), and other networking hardware devices, Coordinating with other IT staff members to ensure that all components of the data center are functioning properly, including power supply units (PSUs), cooling systems, fire protection systems, and security systems, Maintaining current knowledge of new technologies and industry trends in order to recommend new solutions or improvements to existing infrastructure, Handling security issues such as server failures, computer viruses, and unauthorized access attempts, Reviewing and updating disaster recovery plans in case of a major outage or security breach, Providing technical support for users who have questions about their accounts or who have technical problems with their computers, Designing and implementing new solutions based on company goals and objectives, as well as industry best practices.

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

Course Contents	Hours
Huawei - HCIA-Datacom (Previously HCIA-Routing & Switching)	80
VMware - VCTA - Data Center Virtualization (VCTA-DCV 2023)	36
VMware - VCTA - Network Virtualization (VCTA-NV 2023)	12
VMware - VCTA - Security (VCTA-SEC 2023)	18
Total	146

53

INFRASTRUCTURE & SECURITY TRACK

5. 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, 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:

Course Contents	Hours
Huawei - HCIA-Datacom (Previously HCIA-Routing & Switching)	80
Huawei - HCIA-Security	80
Total	160

INFRASTRUCTURE & SECURITY TRACK

6. Google Technical Support Specialist

A Google Technical Support Specialist is capable of; Providing technical assistance and guidance to customers who use Google products and services, such as Gmail, Google Drive, Google Cloud Platform, Google Ads, etc., Troubleshooting and resolving customer issues related to product functionality, performance, compatibility, security, etc., Communicating with customers via phone, email, chat, or other channels to understand their needs and expectations, Documenting customer interactions and feedback in the appropriate systems and tools., Escalating complex or unresolved issues to the relevant teams or experts within Google., Collaborating with other technical support engineers, product specialists, developers, and account managers to provide the best possible customer experience., and Keeping up to date with the latest features, updates, and changes in Google products and services., Participating in training and certification programs to enhance technical skills and knowledge.

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

Course Contents	Hours
Google IT Support Professional	137
Total	137

INFRASTRUCTURE & SECURITY TRACK

7. Azure Cloud Solution Admin & Architect

Azure Cloud Solution Admin & Architect is capable of the following; Creating a well-informed cloud strategy and managing the adaptation process, Evaluating cloud applications, hardware, and software regularly, Developing and organizing cloud systems and working closely with IT security to monitor the company's cloud privacy, Troubleshooting and resolving cloud issues, such as connectivity, performance, security, etc., Implementing and enforcing cloud security policies and standards, such as encryption, authentication, authorization, etc., Updating and upgrading cloud software and hardware in accordance with best practices and company procedures, Documenting and reporting cloud configuration, status, and changes, Providing technical support and guidance to cloud users and other IT staff, Collaborating with other cloud engineers, administrators, vendors, and stakeholders on cloud projects and initiatives.

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

Course Contents	Hours
Azure Fundamentals	6
Azure Data Fundamentals	6
Azure Administrator Associate	32
Azure Solution Architect Expert	32
Customer Data Platform Specialty	32
Azure Data Scientist Associate	36
Manage Resources in Azure	10
Deploy a website to Azure with Azur Virtual Machine	8
Total	162

INFRASTRUCTURE & SECURITY TRACK

8. AWS Cloud Solution Admin & Architect

An AWS Cloud Solution Admin & Architect is capable of the following using AWS technologies; Creating a well-informed cloud strategy and managing the adaptation process, Evaluating cloud applications, hardware, and software regularly, Developing and organizing cloud systems and working closely with IT security to monitor the company's cloud privacy, Troubleshooting and resolving cloud issues, such as connectivity, performance, security, etc., Implementing and enforcing cloud security policies and standards, such as encryption, authentication, authorization, etc., Updating and upgrading cloud software and hardware in accordance with best practices and company procedures, Documenting and reporting cloud configuration, status, and incidents, Providing technical support and guidance to cloud users and other IT staff, Collaborating with other cloud engineers, administrators, vendors, and stakeholders on cloud projects and initiatives.

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

Course Contents	Hours
AWS Cloud practitioner	34
SysOps Administrator Associate	40
Solution Architect Associate	40
Solution Architect Professional	40
Data Analytics	28
Architecting Solutions on AWS	18
Total	200

INFRASTRUCTURE & SECURITY TRACK

9. 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 phish, 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 assigned.

Course Contents	Hours
Intro to Threats, Vulnerabilities, and Incident	20
Assessing Threats	20
Finding Security Vulnerabilities	20
Fixing Security Vulnerabilities	20
Preparing for Inevitable Attacks	20
Project: Navigating a Cybersecurity Incident	20
Total	120

INFRASTRUCTURE & SECURITY TRACK

10. Vulnerability Analyst / Penetration Tester

A Vulnerability Analyst / Penetration Tester is capable of the following; Ensuring that all Network security tests are conducted within the framework set at Mastercard, Ensure that all test cases and tools are used appropriately for testing of 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.

Course Contents	Hours
Intro to Penetration Testing & Red Team Operations	20
Reconnaissance	20
Scanning & Research	20
Gaining Access	20
Maintaining Access	20
Covering Tracks & Reporting	20
Total	120

INFRASTRUCTURE & SECURITY TRACK

11. Information Security Analyst

An Information Security Analyst is capable of the following; Encrypting data transmission to conceal confidential information as it is being transmitted and keep out tainted digital transfers, Advising, implementing, and maintaining security systems, Analyzing and investigating intruder detection or other security systems, and Encrypting data at rest to conceal confidential information.

Course Contents	Hours
Fundamentals of Defending Systems	40
Analyzing Security Threats	40
Assessing Vulnerabilities and Reducing Risk	40
Monitoring, Logging and Responding to Incidents	40
Total	160

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 open 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 in increasing the competitiveness with international companies.

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 SAP, MS Dynamics 365, and Odoo.

Management & ERP

1. Oracle Financial Application Consultant
2. Oracle HCM Application Consultant
3. Oracle SCM Application Consultant
4. Odoo Application Consultant
5. MS Dynamics 365 Financial Application Consultant
6. MS Dynamics 365 SCM Application Consultant
7. MS Dynamics 365 HCM Application Consultant
8. Google Project Management
9. SAP Financial Application Consultant
10. SAP SCM Application Consultant
11. SAP HCM Application Consultant
12. Oracle Digital Accounting Specialist
13. Oracle Digital Supply Chain Specialist
14. Oracle Digital Human Resources specialist
15. MSD Digital Accounting Specialist
16. MSD Digital Supply Chain Specialist
17. MSD Digital Human Resources specialist
18. SAP Digital Accounting Specialist
19. SAP Digital Supply Chain Specialist
20. SAP Digital Human Resources specialist

Management & ERP TRACK

1. Oracle Financial Application Consultant

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

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

Course Contents	Hours
ERP Introduction and ERP Accounting Concepts	21
ERP Introduction and Consulting Role	9
Oracle General Ledger Implementation	30
Oracle Accounts Payable Implementation	24
Oracle Accounts Receivable Implementation	24
Oracle Fixed Assets Implementation	15
Oracle Cash Management Implementation	12
Tax Calculations and Reporting Implementation	6
Workshop & Project: Runs a complete Financials Implementation Cycle	24
Total	165

Management & ERP TRACK

2. Oracle HCM Application Consultant

An Oracle HCM consultant is responsible for providing exceptional consulting services to clients, helping them gain the optimum benefit from their Oracle HCM software projects by applying and integrating client Human resource management rules and reporting into Oracle software. Oracle 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:

Course Contents	Hours
ERP Business Introduction and ERP HCM Concepts	21
ERP Implementation and Consulting Role	12
Global Human Capital Management Implementation	36
Oracle Payroll Implementation	36
Oracle Absence Management Implementation	36
Workshop & Project: Runs a complete HCM Implementation Cycle	24
Total	165

Management & ERP TRACK

3. Oracle SCM Application Consultant

The target job profile for an Oracle SCM (Supply Chain Management) Application Consultant involves designing, implementing, and deploying software for applications in the Oracle SCM suite. They specialize in developing strategies to optimize a company's Supply chain acquisition, cost, and management. They may also collect and analyze business requirements for Oracle SCM projects, write business requirement documents, and other functional and technical documents.

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

Course Contents	Hours
ERP Business Introduction and ERP SCM Concepts	21
ERP Implementation and Consulting Role	12
Oracle inventory Management Implementation	36
Oracle Procurement Management Implementation	36
Oracle Order Management Implementation	36
Workshop & Project: Runs a complete SCM Implementation Cycle	24
Total	165

Management & ERP TRACK

4. 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 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:

Course Contents	Hours
ERP Business Introduction and ERP Accounting Concepts	21
Practicing General Ledger	12
Practicing Accounts Payable	9
Practicing Receivables and Collections	9
Practicing Cash Management	6
Practicing Fixed Assets	3
ERP Introduction and Consulting Role	6
Outlining Odoo ERP Components	6
Odoo Implementation Life Cycle Concepts	6
Accounting Implementation Management	30
Inventory Implementation Management	24
Purchasing Cycle Implementation Management	18
Human Resources Cycle Implementation Management	18
Life Cycle Review Project (Tips & Tricks)	12
Workshop & Project: complete Financials Implementation Cycle	18
Total	198

Management & ERP TRACK

5. 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:

Course Contents	Hours
ERP Introduction and ERP Accounting Concepts	21
ERP Implementation and Consulting Role	9
MSD General Ledger Implementation	30
MSD Accounts Payable Implementation	24
MSD Accounts Receivable Implementation	24
MSD Fixed Assets Implementation	15
MSD Cash Management Implementation	12
Tax Calculations and Reporting Implementation	6
Workshop & Project: Runs a complete Financials Implementation Cycle	24
Total	165

Management & ERP TRACK

6. MSD SCM Application Consultant

The target job profile for an MSD SCM (Supply Chain Management) Application Consultant involves designing, implementing, and deploying software for applications in the MSD SCM suite. They specialize in developing strategies to optimize a company's Supply chain acquisition, cost, and management. They may also collect and analyze business requirements for MSD SCM projects, write business requirement documents, and other functional and technical documents.

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

Course Contents	Hours
ERP Business Introduction and ERP SCM Concepts	21
ERP Implementation and Consulting Role	12
MSD inventory Management Implementation	36
MSD Procurement Management Implementation	36
MSD Order Management Implementation	36
Workshop & Project: Runs a complete SCM Implementation Cycle	24
Total	165

Management & ERP TRACK

7. 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:

Course Contents	Hours
ERP Business Introduction and ERP HCM Concepts	21
ERP Implementation and Consulting Role	12
Global Human Capital Management Implementation	36
MSD Payroll Implementation	36
MSD Absence Management Implementation	36
Workshop & Project: Runs a complete HCM Implementation Cycle	24
Total	165

Management & ERP TRACK

8. Google Project Management

Google project management profile prepares the applicant to be a successful project manager whose roles and responsibilities include but not limited to :

- Being actively involved in the preparation, conceptualization, realization, and deploying of customer implementation projects.
- Enhancing the project management tools for end-users based on requirements.
- Attending meetings with the client and gathering information on their current business processes.
- Conducting business process analyses, needs assessments, and leading industry/corporate process implementation across all related applications5.
- Assisting developers in project planning and delivery.
- Assisting customers in performing integration and acceptance testing.

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

Course Contents	Hours
Foundations of Project Management	18
Project Initiation: Starting a Successful Project	21
Project Planning: Putting It All Together	29
Project Execution: Running the Project	26
Agile Project Management	25
Capstone: Applying Project Management in the Real World	33
Total	152

69

Management & ERP TRACK

9. SAP Financial Application Consultant

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

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

Course Contents	Hours
ERP Introduction and ERP Accounting Concepts	21
ERP Implementation and Consulting Role	9
SAP General Ledger Implementation	30
SAP Accounts Payable Implementation	24
SAP Accounts Receivable Implementation	24
SAP Fixed Assets Implementation	15
SAP Cash Management Implementation	12
Tax Calculations and Reporting Implementation	6
Workshop & Project: Runs a complete Financials Implementation Cycle	24
Total	165

Management & ERP TRACK

10. SAP SCM Application Consultant

The target job profile for an SAP SCM (Supply Chain Management) Application Consultant involves designing, implementing, and deploying software for applications in the SAP SCM suite. They specialize in developing strategies to optimize a company's Supply chain acquisition, cost, and management. They may also collect and analyze business requirements for SAP SCM projects, write business requirement documents, and other functional and technical documents.

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

Course Contents	Hours
ERP Business Introduction and ERP SCM Concepts	21
ERP Implementation and Consulting Role	12
SAP inventory Management Implementation	36
SAP Procurement Management Implementation	36
SAP Order Management Implementation	36
Workshop & Project: Runs a complete SCM Implementation Cycle	24
Total	165

Management & ERP TRACK

11. SAP HCM Application Consultant

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

Course Contents	Hours
ERP Business Introduction and ERP HCM Concepts	21
ERP Implementation and Consulting Role	12
Global Human Capital Management Implementation	36
SAP Payroll Implementation	36
SAP Absence Management Implementation	36
Workshop & Project: Runs a complete HCM Implementation Cycle	24
Total	165

Management & ERP TRACK

12. Oracle Digital Accounting Specialist

Oracle digital accounting Specialist is responsible for day to day work covering all accounting modules GL, accounts receivable, accounts payable, banking and fixed assets, and this will provide clients with digital accounting specialists covering all accounting areas.

Course Contents	Hours
ERP Business Introduction and ERP Accounting Concepts	15
Practicing General Ledger	12
Practicing Accounts Payable	12
Practicing Receivables and Collections	12
Practicing Cash Management	9
Practicing Fixed Assets	6
Workshop	15
Total	81

Management & ERP TRACK

13. Oracle Digital Supply Chain Specialist

Oracle digital SCM Specialist is responsible for day to day work covering all purchasing and warehouse activities, and this will provide clients with digital SCM specialist covering all material management areas.

Course Contents	Hours
ERP Business Introduction and SCM Concepts	15
Practicing Inventory Management	15
Practicing Procurement Management	15
Practicing Order Management	15
Workshop	15
Total	75

Management & ERP TRACK

14. Oracle Digital Human Resources Specialist

Oracle digital HCM Specialist is responsible for day to day work covering all personal, timesheet and payroll contents, and this will provide clients with digital HCM specialist covering all Human resources areas.

Course Contents	Hours
ERP Business Introduction and HR Concepts	15
Practicing Global Human Capital Management	15
Practicing Payroll	15
Practicing Vacations and Absence Management	15
Workshop	15
Total	75

Management & ERP TRACK

15. MSD Digital Accounting Specialist

MSD digital accounting Specialist is responsible for day to day work covering all accounting modules GL, accounts receivable, accounts payable, banking and fixed assets, and this will provide clients with digital accounting specialists covering all accounting areas.

Course Contents	Hours
ERP Business Introduction and ERP Accounting Concepts	15
Practicing General Ledger	12
Practicing Accounts Payable	12
Practicing Receivables and Collections	12
Practicing Cash Management	9
Practicing Fixed Assets	6
Workshop	15
Total	81

Management & ERP TRACK

16. MSD Digital Supply Chain Specialist

MSD digital SCM Specialist is responsible for day to day work covering all purchasing and warehouse, and this will provide clients with digital SCM specialist covering all material management areas.

Course Contents	Hours
ERP Business Introduction and SCM Concepts	15
Practicing Inventory Management	15
Practicing Procurement Management	15
Practicing Order Management	15
Workshop	15
Total	75

Management & ERP TRACK

17. MSD Digital Human Resources Specialist

MSD digital HCM Specialist is responsible for day to day work covering all personnel, timesheet and payroll, and this will provide clients with digital HCM specialists covering all Human resources areas.

Course Contents	Hours
ERP Business Introduction and HR Concepts	15
Practicing Global Human Capital Management	15
Practicing Payroll	15
Practicing Vacations and Absence Management	15
Workshop	15
Total	75

Management & ERP TRACK

18. SAP Digital Accounting Specialist

SAP digital accounting Specialist is responsible for day to day work covering all accounting modules GL, accounts receivable, accounts payable, banking and fixed assets, and this will provide clients with digital accounting specialists covering all accounting areas.

Course Contents	Hours
ERP Business Introduction and ERP Accounting Concepts	15
Practicing General Ledger	12
Practicing Accounts Payable	12
Practicing Receivables and Collections	12
Practicing Cash Management	9
Practicing Fixed Assets	6
Workshop	15
Total	81

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19. SAP Digital Supply Chain Specialist

SAP digital SCM Specialist is responsible for day to day work covering all purchasing and warehouse, and this will provide clients with digital SCM specialist covering all material management areas.

Course Contents	Hours
ERP Business Introduction and SCM Concepts	15
Practicing Inventory Management	15
Practicing Procurement Management	15
Practicing Order Management	15
Workshop	15
Total	75

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20. SAP Digital Human Resources Specialist

SAP digital HCM Specialist is responsible for day to day work covering all personal, timesheet and payroll, and this will provide client with digital HCM specialist covering all Human resources areas

Course Contents	Hours
ERP Business Introduction and HR Concepts	15
Practicing Global Human Capital Management	15
Practicing Payroll	15
Practicing Vacations and Absence Management	15
Workshop	15
Total	75