System Analysis Certificate Program

Northeast Training Group – Egypt

www.ntg-egypt.com

NTG Egypt is licensed by NTG of America to expand their training offerings into the Egyptian market with the mission of: "providing participants with "Must Have" Skills to heighten their ability to improve and maintain job performance to support strategic corporate business goals. NTG-Egypt maintains a policy of objectivity and client focus through its decision to use only the very best professional instructors.

Program Overview

The IT sector is changing rapidly. Recent graduates and IT professionals in transition are more likely to find jobs by focusing on acquiring skills in areas of expanding demand and by avoiding areas that are being phased out. The emergence of cloud technology and Software as a Service (SaaS) has eliminated much of the work traditionally performed by in-house IT departments. The role of the Systems Analyst is among those jobs for which demand is increasing, due in part to the trend away from large in-house IT staffs and toward cloud-based services. According to the American Bureau of Labor Statistics, the job of Systems Analyst is "expected to grow much faster than the average for all occupations," with demand expanding "as organizations continue to adopt and integrate increasingly sophisticated technologies, and as the need for information security grows."

Continuous training on the most up-to-date technology is crucial for Systems Analysts as they play a pivotal role as the main link between IT professionals and vendors.

Content

This certificate is intended for individuals who are looking to enhance their skills and knowledge by learning emerging technologies. Our Systems Analysis Certificate is a comprehensive program that integrates, technical skills, creativity and critical thinking, as they are a significant building block on your career path from practitioner to expert.

The main outlines for the 4 modules of the program are as follows:

Software Requirements Management (14 Hours)
- Requirements Management Principles and Practices
- Requirements Change, Tracing, and Management Tools
- Special Requirements Challenges and Process Improvement
- Software Requirements Risk Management

Data Modeling and Relational Database Design (14 Hours)
- Relational Database Methodology
- Building a Logical Database Model
- Transforming to Physical Design
- Designing for Performance
- Constructing the Database
- More Designing Issues

Software Quality Assurance and Testing Techniques (14 Hours)
- Introduction to Quality Assurance
- Planning for SQA
- Implementing Verification and Validation Approaches
- Applying Configuration Management (CM)
- Fundamentals of Testing
- Testing Throughout the Software Life Cycle
- Static Techniques
- Test Design Techniques

Agile Software Development (14 Hours)
- Agile Development Methods Overview
- Lean Software Development
- Scrum - Introduction
- Scrum - Prioritizing, Estimating, and Planning
- The Scrum Experience (hands-on exercise)
- eXtreme Programming (XP), Values and Principles
- eXtreme Programming (XP), Practices
- Feature-Driven Development
- Class Project Checkup & Project Example
- Dynamic Systems Development Method
- Enterprise Agility
- Team Dynamics and Collaboration

Key Benefits

Upon the completion of this program participants will be able to:
- Identify opportunities to improve systems and processes efficiency
- Proactively manage the components of software development project
- Advice top management in technology related matters
- Assist in troubleshooting software application issues
- Define, design and implement a software quality and testing techniques to assure on-time delivery of robust products

Participants' Profile

TThis program is designed for those who want to learn emerging technologies or gain certificate to advance or change their career and positively impact the strategic objectives of their companies. It would perfectly suite Systems Analysts, IT Professionals, Project Managers, Project Team Leaders, etc…

Instructors' Profile

This program will be conducted by extremely qualified practitioners who have both the extended professional experience in the field and the profound academic background. All the instructors of the program are fully capable to combine the instructor-led training sessions, supplemented by readings, exercises and practical group work with workplace assignments, coupled with rich feedback, and ensure that the participant is able to apply the skills directly in the workplace.

Practical Information

Location: Regional IT Institute Premises
Duration: 56 hours (4 weeks)
Schedule: 2 executive days and 1 full training day a week
Registration Requirements: Registration form, copy of national ID and 2 photos