Module 1: Intro to Computers and Programming

Two Distinct Parts: Software Developers

Analyst Aspect – analyze processes and design software solutions

Programmer – code and implement software

System Analysis

* Business analysis (Plan, Analyze, Design, Implement, and Maintain software)
* Create efficiencies to business processes (optimize)
* Meetings with software users to understand what they want in their software
* Research business processes and coding techniques
* Criteria Gathering

Software Programming

* Software Development (Coding programming Code)
* Software Integration

Software Support

- Support In-House (Software built internally) applications

- Support ERP (Large purchased business systems) applications

- Support Vendor (Software built outside your company that you build and install) applications

Software Implementation

* Test Software
* End User Training
* Software “Go Live” (Start using the software for production)

Database Interaction

* Data conversion (copying data from one software system to another.)
* Database creation (A database is a large software package that houses software data.)

Business Intelligence

* Report writing (Extract and summarize data to produce useful information for the company)
* Data mining (Search of critical business information inside the database.)

Help Desk

* Solve customer software and data issues
* Support all applications

Web Management

* Web Page Creation
* Web Content Updates

System Administration

* Web Site management
* PC Technician
* Application Security

Self-Improvement

* Obtain Training (Keep yourself up to date in the latest systems analysis and programming techniques)

Data Analyst

A Data Analyst is an IT professional that collects and stores data. They bring technical expertise to ensure the quality and accuracy of that data, then they process, design, and present it in ways to help people, businesses, and organizations understand and make informed decisions.