Emerging Technologies & Innovation
An introduction to Cognitive Intelligence, Blockchain, Robotics, and other emerging technologies

Course Schedule – Topics & Activities

Day One
- Innovation - Internal Audit of the future
  - Current state of Risk Management and Internal Audit
  - Future State: Three lines of defense
  - Internal Audit of the Future
    - IA 3.0 blueprint
    - Framework
    - And then building out the various components of the blueprint
- Agile Internal Audit
  - Agile principles / Agile IA Overview
  - Audit canvassing and output
  - Definition of Ready / Done
  - Roles and Responsibilities
  - Story Mapping
  - User Stories
  - Sprint Planning
  - Sizing and Estimation
  - Backlog Refinement
  - Agile Ceremonies
  - POV

Day Two
- Analytics & Automation in the context of IA
  - Why / value
  - Marketplace perspectives
  - Use Cases
  - Strategic considerations
    - People
    - Process
    - Methodology
    - Data Management
- Project identification & ROI
- Presenting observations & Story telling
  - Why we tell stories
  - The Science: Approach to Developing Stories
  - The Art: Developing Data-Driven Content
- Introduction to Tableau
  - Interface tour
  - Importing a data set
  - Developing charts
  - Calculated fields
  - Dashboards and Actions
- Tableau use case

**Day Three**

- Cloud Computing
  - Cloud 101
  - Cloud Risk Management
  - Cloud Computing Trends
  - Cloud Security
    - Leading Practice
    - Cloud Security Framework
- Cognitive Intelligence/Robotics
  - Technology Fundamentals
  - Why Automate and benefit to IA
  - Use Cases / Demos
  - How do you start
  - Deployment Methodology
  - You built a “bot” – now what?
    - Performance / KPI
    - Governance

**Day Four**

- Blockchain
  - Bitcoin versus blockchain – What’s the difference?
  - Blockchain use cases
  - Focused studies – What went wrong?
  - Accounting and audit considerations
  - Use cases and risk framework
    - What about the regulators?
• Internet of Things and what to do about it?
  o That thing needs to be audited? Why?
    ▪ Understanding what OT, IoT, and IIoT are
    ▪ Where to find OT, IoT, and IIoT
  o Discussion – where is OT, IoT in your company?
  o Show me the risks
    ▪ People
    ▪ Process
    ▪ Technology
  o Understanding your business’ risk
  o Internal Audit considerations
    ▪ Knowledge
    ▪ Governance, Risk Management, Compliance
    ▪ Program, Process, Operational considerations

*Topics and activities may vary by class and instructor.