RISK AND RESILIENCE BOOTCAMP

TEKsystems Global Services

WORKFORCE DEVELOPMENT

INTRODUCTION

- Welcome to the Risk and Resilience bootcamp
- Before we jump into the material, some orientation:
  - Introduction of the instructor
  - Introduction of the students
  - Class materials
  - Outline of the bootcamp
  - Operational protocols for the camp
- And anything else we need to do

ROD DAVISON - INSTRUCTOR

Fifty-three years IT-related experience

Academic

- Theoretical math, cognitive science, psychology/sociology and linguistics/anthropology

Work

- Artificial Intelligence R&D and management
- Quality engineering
- Market research, social research design
- Business analysis, project management, project forensics
- Consulting and training

Clients

- Banking and finance (Wall Street)
- Insurance
- Engineering
- Defence contractors
- Fortune 100 companies
- US and Canadian government agencies

ROD DAVISON - INSTRUCTOR

Fifty-three years IT-related experience

Consulting

- Project forensics
- Legacy systems re-engineering
- Corporate change management
- Technology adoption and migration
- Software re-engineering

Research

- AI (neuro-symbolic, artifical life, evolutionary AI)
- Bio-computing and quantum computing
- Regenerative IT infrastructure
- Cognitive science and physics
- Social movements and organization

INTRODUCE YOURSELF

I have already reviewed the bios that have been provided

Introduce yourself beyond what is in your official bios, and highlight anything that you think should have been in your bio but isn't

Also:

- The name you would prefer to be called in class
- Your technical background and skill sets are you bringing to class and your self assessed level of expertise
- Experience with risk and resiliency, not just in IT but any sort of actual hands on work practice
- Any specific goals or objectives for the class

CLASS REPOSITORY

- The link to the class repository is in the references document
  - This repository will contain all of the material used in class
  - Updated regularly as new material is introduced during the class
  - Intended to be a working repository for the class
- The repo will contain
  - The slides for the class
  - All of the case study and exercise materials
  - Resources and publications
  - Reference and reading list

COURSE STRUCTURE

- The course is divided into sections
  - Each section is roughly one week
  - Although the sections may be shorter or longer than one week
- The main risk sections are
  - Module 1: Risk Foundations and Technology Context
  - Module 2: Core Technology Operations and Controls
  - Module 3: Risk Identification and Classification
  - Module 4: People, Process, and Systems
  - Module 5: Risk Assessment and Analysis
  - Module 6: Risk Response and Monitoring
  - Module 7: Reporting and Governance

COURSE STRUCTURE

- The main resilience sections are
  - Module 1: Risk Foundations and Technology Context
  - Module 2: Core Technology Operations and Controls
  - Module 3: Risk Identification and Classification
  - Module 4: Foundations of Resilience & Continuity
  - Module 5: Domain-Specific Resilience Strategies
  - Module 6: Testing, Exercising & Crisis Management
  - Module 7: Integration, Maturity Planning

COURSE FORMAT

- The class is an analytic workshop
  - The focus is developing the analytical skills you will need on the job and in your career
  - Roughly, the last half of the course will be divided between the classroom environment and mentoring on-site
- There will be a capstone project
  - This will allow you to apply what you have learned in class in an integrated manner
  - The format and content will be finalized in the early part of the class
- The content is aligned to support your certification
  - But this is not an exam prep course
  - The objective is to prepare you for the workplace
  - The course will cover more than what is required for certification
  - The certifications preparation follows from this

COURSE FORMAT

- Each module will be composed of
  - Lectures: Minimal time will be spent just listening
  - Discussions: These will be guided discussions about the material presented
    - Participation in these will be considered in your evaluation
    - The purpose of the discussion is to ensure that you understand how to apply the material
  - Readings: These are papers and reports that
    - Are relevant to risk and resiliency in the finance world
    - Will often form the basis for discussions
  - Case studies
    - These are real-world case studies that you will analyze and report on during class
  - Exercises
    - These are where you will apply the class content to a practical hands-on problem

COURSE PROTOCOLS

- The focus of the course is learning operational and critical thinking
  - We will cover the theory aspects of risk and resiliency; but
  - This course is about how that theory fits into the real world
  - The people, technologies and systems issues that you will have to deal with on the job
  - *"In theory there is no difference between theory and practice; in practice, they are nothing alike"*
- Learning model
  - Focus on how well you can adapt, modify and improvise when applying the theory to practical real world situations
  - For most of the exercises, there is no "right answer in the back of the book"
  - Instead, we will also explore how to assess the quality of your solutions
  - At various points, you will review and critique your classmates work
  - The goal of peer reviews is to help you build critical evaluation skills

COURSE PROTOCOLS

- Participation
  - Your participation is expected and required
  - Feel free to ask questions or speak up at any time during the class
  - There will be check-ins at random points where the instructor will ask you to confirm how well you understand the material
- Behavior
  - Be respectful and courteous to your classmates
  - Be on time for class and returning from breaks
  - If you are going to be absent, let the instructor know in advance if possible
- Have fun!
  - You are going to learn a lot more if you enjoy the class

Q&A AND OPEN DISCUSSION