Module 10– Objectives and Key Instruction Points

Objectives:
Provide students an understanding of the design aspects of the greater ecosystem of IT services of which an IT environment is comprised. The value of an IT environment results in part from the effectiveness and efficiency by which it serves its purpose. Cyber security is concerned about both the component level risk, alluded to in Module 9, and the holistic risk resulting from the composition of IT services and the infrastructure, developed to support these services.
The guiding question is "What concepts and skills do students need to be successful building an IT environment suitable for the CDC?"

Video Segment 1 –

1. Broad Architecture
    a. Infrastructure View
        i. Core & Edges
        ii. Zones/Security domains
        iii. Development – Test – Production
        iv. Storage and backup – too esoteric
    b. Services View
        i. General public
        ii. Customers
        iii. Investors/Shareholders
        iv. Suppliers/Partners
        v. Internal Operations
            1. Generic
            2. Specialized
    c. Personnel View
        i. Application Owners
        ii. Administrators
        iii. Developers
        iv. Users
    d. Dataset View
    e. Systems View
        i. Service Components allocation
        ii. Services Components collocation
        iii. Physical vs Virtual systems
    f. Trust View (may be too abstract)
2. Infrastructure View
3. System View

Activities

Name	Objectives	Content ideas
Activity1	Apply broad architecture concepts	Provide several views of a fairly complicated environment. Pick an industry in which the fictional

		organization participates. This provides helpful context. Have students go through interpretation exercises. Exercises could be related to describing operations, evaluating a problem's impact, evaluating what a malicious person could do.
Activity 2		.

Activity design

Handouts
Title:
Objectives:
Length: X pages
Notes: