Module 1
Fundamental SOA & Service-Oriented Computing

Service-Orientation Principles
- standardized service contract
- service loose coupling
- service abstraction
- service reusability
- service autonomy
- service statelessness
- service discoverability
- service composability

Strategic Goals and Benefits
- reduced IT burden
- increased organizational agility
- increased ROI
- increased vendor diversification options
- increased business and technology alignment
- increased federation
- increased intrinsic interoperability

Service-Oriented Architectural Model
- characteristics
  - business-driven
  - vendor-neutral
  - enterprise-centric
  - composition-centric

Service Delivery Lifecycle
- common approaches
  - top-down
  - bottom-up
  - meet-in-the-middle
- stages
  - service-oriented analysis
  - service modeling
  - service-oriented design
  - service development
  - service implementation
  - others...

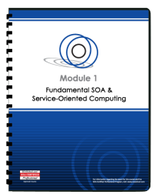
Service
- can be comprised of
  - service contract
  - service logic
  - encapsulated resources
- is shaped by the application of
  - service-oriented principles

Service Composition
- is comprised of
  - services

Common SOA Technologies
- XML
- XML schema
- Web services
- REST services
- Web 2.0 & mashups
- enterprise service bus
- service grids
- service virtualization
- cloud computing
- others...

Service-Oriented Solution Logic
- types
  - service
  - service composition

Service Inventory
- types
  - domain service inventory
  - enterprise service inventory



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