ITIL 4 Foundation Notes

1. Concepts of service management

• Service Management

 A set of specialized organizational capabilities for enabling value for customers in the form of services

Service

- o Means of enabling value co-creation
- o by facilitating the **outcomes** that customer want to achieve
- o without customer managing cost and risks

Value

- Utility
 - Fit for purpose
 - Functionalities
 - Supports performance of consumer and remove constraints

Warranty

- Fit for use
- Availability, Capacity, Security, Continuity
- Assurance that product or service will meet agreed requirements

Outcome

- o Results desired by a stakeholder
- Service providers help service consumers achieve outcomes
- o Can be enabled by more than one output

Cost

- Cost imposed vs Cost reduced
- o Removing costs from consumer can be part of value proposition

Risk

Risk introduced vs Risk removed

Organization

- Varies in size and complexity
- Uses function to achieve its objectives

Customer

- Define requirements
- o Responsible for outcomes

User

Use the services, submit requests

Sponsor

Authorize budget

Output

- Tangible or intangible deliverable created by carrying out an activity
- Contribute to the achievement of outcomes

Service Offering

- A package that comes with products and services
 - Goods
 - E.g. Laptop, software, license
 - Access to resources
 - E.g. Login credentials
 - Service action
 - E.g. Support

• Service Relationship Management

- o Identify consumer roles
 - To provide value by removing constraints
- o Service provider and consumer works together to ensure continual value co-creation
- Service provision
 - The management of resources configured to deliver the service

2. 4 Dimensions

• Partner and Suppliers

 Understand the level of <u>integration</u> and formality involved in the relationships between organization

• Value Stream and Processes

o Focus on activities/workflows and how these are coordinated

Organization and People

- o Governance, management and communication
- o Roles and responsibilities
- Organization structure, culture and leadership
 - Created from shared values based on how work is carried out
 - Based on the objectives of the organization

Information and Technology

- Information security compliance
 - Protect knowledge assets
- Knowledge base
- Management systems

3. Service Value System

All components of the Service Value System work together to facilitate and ensure continual value co-creation.

- Guiding Principles
- Governance
- Service Value Chain
- Practices
- Continual Improvement

4. Guiding principle

Guiding principles should be used and considered in ALL initiatives and circumstances. This helps an organization in decision making to adopt and adapt ITIL guidance.

Focus on value

- o Focus on customer and user experience at every step of improvement
- o Concern about consumer's revenue and growth
- o First step is always to know who is your consumer

• Start where you are

- The use of measurement should support, not replace what is observed (direct observation)
- Use measurement data to assess the current state
- Assess what can be reused based on data
- Use existing services, processes and tools as much as possible

• Progress iteratively with feedback

- o The ability to discover failures and respond fast (Fail fast, learn fast, improve fast)
- o Organize work into small and manageable sections
- o Important to do work instead of spending too much time analyzing
- o Each improvement iteration should be continually re-evaluated based on feedback

Collaborate and promote visibility

- o Increase collaboration and visibility for improvement
- Better information is available for decision making
- Understand flow of WIP, identify bottleneck, uncover waste

• Think and work holistically

- Consider the 4 dimensions of service management and ensure their coordination for every initiative
- o Focus on the end-to-end service delivery

• Keep it simple and practical

- o First step is to understand how each element contributes to value creation
- Use minimum number of steps to create value

Optimize and Automate

- o Starting point is to understand company vision and objectives
- Standardize before automating

5. Service Value Chain

An **operating model** which outlines the activities to respond to demand and facilitate value realization.

Each value chain **activity** uses a different **combination of practices** to convert **input to outputs** Outputs helps to deliver an expected outcome which is business **VALUE REALIZATION**

• Plan

 Ensure understanding of vision, current status and <u>direction</u> for all products and services through proper communication.

Engage

- Good relationship with stakeholders
- Great understanding of stakeholder needs
- Transparency between service provider with all stakeholders

• Design and Transition

 Ensure services meet stakeholder expectation of stakeholders in terms of quality, time, budget and cost.

• Obtain and Build

 Ensure components are ready for use with correct specifications and agreed level when needed

Deliver and Support

 Ensure delivery and support of services is according to agreed level and specifications

Improve

o Ensure continual improvement of the 4 dimensions

6. Practices

• Continual Improvement

- o Purpose
 - Continually improve alignment between business and IT
- Continual Improvement Model

A set of defined steps for implementing improvements

- What is the vision?
- Where are we now?
- Where do we want to be?
- How do we get there?
- Take Action
- Did we get there?
- How to keep the momentum going?
- Continual Improvement Register (CIR)
 - Identify and log opportunities in CIR
 - Improvement ideas are documented, assessed and prioritized here
 - Should be reprioritized as ideas are documented
- An organization should always develop competencies in methodologies and techniques that will meet their needs
- Making business cases for improvement action
- Select a few key methods for the types of improvement that the organization handles
- o Improvement should be based on accurate and carefully analyzed data
- Use balanced set of metrics to provide an outcome-based view of services
- At least one team dedicated to leading continual improvement efforts
- o Responsibility for everyone in the organization
- Balance Score Card (BSC) reviews and maturity assessment technique
 - SWOT analysis

Service Level Management

- o Purpose
 - Set clear business based targets for service performance and assess, monitor and manage service delivery against target
- o Service level agreement
 - Define the required performance outcomes of a service
 - It should be simply written and easy to understand
- Customer engagement
 - Ask customer about their work and how technology can help them
 - Identify metrics that reflect customer experience by asking customer open questions about the requirements
 - Capture information about the metrics and progress discussion
- Customer feedback
 - Use of event-based surveys to gather feedback from customers
- Key areas of competences

- Listening
- Business Analysis
- Commercial management

• Supplier Management

- o Purpose
 - Manage suppliers and their performance through contracts/agreements to ensure seamless provision of all products and services
- Supplier strategy depends on corporate culture
- o Anything you want from supplier has to be included in contracts

• Information Security Management

- Purpose
 - To protect information
- o Manage risks to CIA
 - Confidentiality
 - Integrity
 - Availability

• Change Control

- o Purpose
 - Ensure risks have been properly assessed for every change
- Definition of change
 - Addition, modification, or removal of anything that could have an effect on services is assessed and authorized
- Type of change
 - Normal change
 - Changes that need to be scheduled and assessed following a proce2ss
 - E.g. change a particular feature in an application
 - Emergency change
 - The assessment and authorization of emergency changes is expedited to ensure they can be implemented quickly
 - E.g. Security patch to a critical application
 - Standard change
 - A change that is normally implemented as a service request
 - A full risk assessment and authorization should be done when the procedure for the standard change is created
 - E.g. The installation of a software application in response to a service request

Release Management

- Purpose
 - Make new and changed services available for use

Monitoring and Event Management

- o Purpose
 - Detect <u>change of state</u> that has a significance

• Incident Management

- o Purpose
 - Restore normal service operation as soon as possible
 - Incident is an unplanned interruption or reduction in quality
- o Log incident and collect initial information e.g. incident symptoms
- o Categorize
 - Direct incident to the correct support group
- Prioritize based on business impact and urgency
 - Low impact incidents should be resolved efficiently so the resource required is reduced
 - High impact incidents should be resolved ASAP
 - Collaboration between teams helps solving incident quickly
 - Might trigger disaster recovery
- Initial Diagnosis
 - Refer to problem and known errors for workarounds to enable quick and efficient diagnosis of incidents
 - Use scripts for simple incidents
- Escalation
 - Incident category helps assign to the correct group
- Resolution
 - Target resolution time should be agreed, documented and communicated to set user expectation
- Provide good quality updates when expected
- Automation (Tools)
 - Automate the matching of incidents to problems/known errors

• Problem Management

- Purpose
 - Management of vulnerabilities that were not identified before the service went live
 - Identify the underlying cause of incidents
 - Reducing the likelihood of incidents
- 3 phases of problem management
 - Problem Identification
 - Problem Control
 - Error Control
- Proactive problem management
 - Trend analysis
- Problem Prioritization
 - Based on risks (impact x probability)

- o Problem
 - A cause or a potential cause of one or more incidents
- Workaround
 - Documented after the problem has been analyzed
 - Reassessed whenever a workaround is used
- o Known error
 - A problem has been analyzed and has not been resolved
 - When a workaround becomes permanent, problem stays at known error status
- Key characteristics of problem teams
 - Understand complex systems
 - Creative
 - Good analytical skills
- Interact with Incident Management (Reactive), Continual Improvement(Proactive) and Change Control (Permanent fix)

• Service Request Management

- o Purpose
 - Manage the lifecycle of service requests
- o Depends on predefined processes and procedures to maximize efficiency
- Set user expectations by communicating the time needed to realistically deliver the service
- Should be <u>well known and proven and part of normal service delivery</u> like the following:
 - Info, query, advice
 - Standard change
 - Access to standard services
 - Feedback, compliments and complaints
- Leverage existing workflows whenever possible for new type of service requests

Service Desk

- Purpose
 - Capture demand for incident and service requests
 - Single point of contact for service consumers and all users
- Coordinates the following for all incidents and service requests
 - Classification
 - Ownership
 - Acknowledgement
 - Communication
- Detect recurring issues and help identify problems
- o Work closely with support and development teams

- Key skill areas
 - Incident analysis skills
 - Understand business
- Automation tools
 - Allows service desk to focus more on customer experience when personal contact is needed.
 - Example of tools Chatbot (automated service desk for FAQs)

• Relationship Management

- Purpose
 - Establish and nurture the links between the organization and its stakeholder at strategic and tactical level

• IT Asset Management

- o Purpose
 - Manage lifecycle of all IT assets
 - Optimize cost, manage risks and maximize value
- IT Asset
 - Anything that is financially valuable

• Service Configuration Management

- o Purpose
 - Accurate and reliable information is available about configuration items and relationship between them
- o Configuration Item
 - any components that need to be managed in order to deliver an IT Service

Deployment Management

- o Purpose
 - Move components into live environments