Itential IWD110 Training

* Overview
  + IDE – Integrated Development Environment
  + IAP – Itential Automation Platform
  + Automation – collection of tasks in a logical order
  + Job – A running instance of an automation
* Chapter 1: Workflows and Jobs
  + Blue = manual tasks
  + Green = Automatic tasks
  + Pink boxes are start and end terminators
  + Purple boxes are operation tasks
* Chapter 2: Tasks
  + API documentation from Itential developer hub to learn about IAP packages – developer.itential.io
  + YANG – Yet Another Next Generation
  + NSO – Network Services Orchestrator
* Chapter 3: Transitions
  + Solid line – task moves forward
  + Dashed line – task moves backwards
  + Green line – success state
  + Red line – error state
  + Blue line – loop
* Chapter 4: Job Execution and Management
  + For production, jobs are started in three ways:
    - Through an HTTP or Node.js API
    - Service Catalog IAP application
      * Starts jobs for workflows designed around YANG service model operations.
    - Automation Catalog IAP application
  + Tasks and transitions that don’t run are colored gray
  + LDAP = Lightweight Directory Access Protocol (used for authentication and access)
* Chapter 5: Workflow Management
  + Workflow life cycle:
    - Local device (for creation)
    - Trunk environment (for testing)
    - Integration (test with external systems)
    - Quality Control (tests for workflows to ensure they meet quality standards)
    - Staging environment (beta testing)
    - Production (live environment)
  + Workflows are locked while jobs are active
  + JSON = JavaScript Object Notation
* Chapter 6: Job and Task States
  + Jobs have two states: active and done
  + Cancelled is a done state
  + An error is an active state
* Chapter 7: Variables
  + Variables are described by:
    - Label – the variables name
    - Value – The data assigned to a variable when a program runs.
  + Parameter – the expected data a job or task needs.
  + Arguments – The runtime data passed for parameters.
* Chapter 8: Best Practices
  + “t” to enter edge mode
  + “y” to exit edge mode
  + “d” to delete selected tasks or transitions
  + Make workflows read left to right
  + Have multiple tabs with workflow builder and job manager
  + I/O tasks should have a runtime error