

# EasyIO Certification

1. Upgrade firmware
2. Setup of CPT and Sedona folders
3. Overview of CPT
4. connecting to FG controller
5. installing kits needed
6. CPT Programming
  - a. Service
    - i. Plat info
    - ii. Time
    - iii. Changing IP
    - iv. cptService
    - v. weather from yahoo (look up woeid)
  - b. Creating new folder named IO
    - i. Add folder AI
      1. Setup Temp input with Preset sensor table
      2. Setup Voltage input with reset object
    - ii. Add folder AO
      1. Add heating valve
      2. Add econ cmd
    - iii. Add folder DI
      1. Create FanStatus
      2. Create Freezestat
    - iv. Add Folder DO
      1. Add 3 Dos making the third on of the Uos
  - c. Program Folder
    - i. Heat Folder
      1. Program heating valve
      2. Show how to create a user library with this program
    - ii. Cool Folder
      1. Program DX cooling
      2. Insert user created program from the heat folder
    - iii. Econ Folder
      1. Program Econ with MALL
      2. Use a psychrometric object
    - iv. Fan Folder
      1. Use a OSSschedule with holiday
      2. Use OSS object
  - d. Setpts Folder
    - i. Create all setpoints and link to available objects
7. Graphics
  - a. Create AHU graphic
    - i. Add in all of the duct and equipment

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- ii. Link equipment to objects in the app
    - iii. Add labels and text values
      - 1. Go over syntax of animated values
      - 2. Go over pass through for boolean points
    - iv. Add in the weather icon and then add link to weather URL
    - v. Add live history chart of Zone Temp
    - vi. Full deploy to FG and then preview
  - b. Schedule Graphic
    - i. Add WebTime edit
    - ii. Add WebDateEdit
    - iii. Quick deploy and preview
    - iv. Go back to AHU and add schedule link with icon
  - c. Home Graphic
    - i. Add logo
    - ii. Add links to pages
- 8. Drivers
  - a. Add serial service from Fgserial kit
  - b. Modbus
    - i. RTU Slave
    - ii. TCP Slave
    - iii. RTU Master
    - iv. TCP Master
  - c. BACnet
    - i. Bacnet service
      - 1. Server
      - 2. Client
    - a. Discovering devices and points
- 9. Sql Database
  - a. Sql Service
  - b. Adding tables
  - c. Adding columns
  - d. Going back to AHU and adding history chart
  - e. Looking at the HTTP request page
  - f. Adding a link for csv download via the AHU page
- 10. Test take home