Leavenworth CMOP

Fully Functional Automated Pharmacy Verification Spur (workstation)

Leavenworth CMOP is replacing its current Pharmacy Check Workstation Systems.

The current workstation consist of an ergonomic desk, chair, overhead light, task light, overhead small storage shelf, 120vac power, fiber optic network connection, barcode scanner and PC. Each workstation has access to a common supply (queue) of totes (filled with prescriptions) ready for verification and has access to a common conveyor for totes that have been verified and will be routed to packaging. The pharmacist must manually remove totes from the common queue often stacking them at the workstation and then manually remove them from the stack as they are verified.

The new system shall move totes from the common conveyor into the pharmacist spur (workstation) in a fully automated fashion. The new workstation shall occupy the existing facility footprint, integrate with current operations software, and minimize changes/additions to the current hardware and support equipment.

SYSTEM DESIGN AND PERFORMANCE

The new Leavenworth CMOP Pharmacy Check Workstation System shall consist of separate conveyor (Spur) supplying totes ready for verification and queue them in a dedicated lane for 12 to 26 Pharmacy Check workstations. The queue shall contain a sufficient number of totes to maximize tote capacity of available floor space and process them at a rate that ensures work is always available for the pharmacist at the workstation. The queue will present a tote onto the Pharmacist workstation ready for verification. Each Pharmacy Check Workstation will have a separate conveyor system that will route completed totes to the Packaging workstations. Additional requirements are listed below:

    a. Installation will minimally impact current Pharmacy Check System throughput.
    b. Fit within existing square footage.
    c. Fully integrate with Leavenworth CMOP's existing conveyor routing systems (including totes) and operating system. Implementation of interface/integration software must be compatible with systems currently in use.
    d. Signal an alert, visual and audible, when any operational programs malfunction or disengage.
    e. Provide control system at each spur for disabling/enabling tote flow onto spur.
    f. Provide control system at each spur for auto/manual operation of tote transfer onto spur.
    g. Provide control system at each spur to correct and clear all errors.
    h. Provide fiber optic network cabling with at least a gigabyte backbone that seamlessly integrates into the existing CMOP network.
    i. Provide emergency e-stop at each spur workstation.
    j. Provide Pneumatic and Electrical Lockout capability for each spur.
    k. Each workstation shall have adequate work surface to present a tote for verification, remove prescriptions from tote and verify prescriptions.
    l. Each workstation shall be designed to allow for verification of prescriptions in an ergonomic configuration to minimize repetitive motion. Each station will have an adjustable keyboard tray w/mouse, fully adjustable PC monitor bracket, mounting platform for PC monitor, cable management wire way, 120vac power, power strip, Fiber Optic network connection, overhead fluorescent lighting, adjustable task light, shelf for storage, adjustable height work surface, adjustable height chair and ability to work seated or standing.