MAT Program Design HW

Background
Industrial and systems engineers often work on logistics problems. Logistics can range from supply chain management and production logistics to distribution logistics.

Problem Statement
You are an industrial and systems engineer and have been asked to instruct a new plant worker. The instructions are the procedure for an assembly line that produces couplings for hydraulic hoses. The plant operates from 9:00am to 5:00pm, with an hour break for lunch from 12:00pm to 1:00pm. If there are no couplers waiting to be processed, the worker is to paint other parts until a coupler arrives. The couplers are weighed to determine if they have been produced correctly. If they weigh more than 2 lbs or less than 1.75 lbs they must be placed in the “Recycle Bin”. If they weigh in between those limits they are transferred to the production line.

Instructions
Represent/Plan
- Create a flow chart for this new plant worker to do this job correctly.
- Hint: Include checks on the time to determine if the worker should be working.
- Document any assumptions you make.