Handling of mechanical drawings

Background

Today, AVT has a manual/physical handling of mechanical drawings in our manufacturing unit, which adds a lot of unnecessary time and we do not control where a drawing and/or part is in the workflow.

Which operations/steps are included in each part are stamped and noted on the drawings. After that the drawings are placed in a binder in which the operator notes when a step is completed. The drawings then goes on to the next operator who performs the next operation, etc. Operations can also be done outside the house, e.g. surface treatment or preparing operations (laser/water cutting, etc.

Since each part, hypothetically, can go different paths through the process and, in addition, does not have a clear "map" of how the flow of the physical drawings travels. Then it becomes difficult or impossible task to keep track of the parts for colleagues that are outside the manufacturing unit. This is especially directed at employees involved with the purchase of manufacturing components and those who need the parts.

This seeking for parts and drawings are costing AVT a lot of hours and we need to streamline the process.

Purpose

The purpose of the task is to get a picture of how the flow looks today and how much time we spend on manual handling and get suggestions on how to get better control of our drawings and parts.

Goals

A survey of our current manual flow of drawings, as well as a bottleneck analysis of the flow.

AVT also wants to see out current flow from a lean perspective. How much time is spent on non-value-added work today?

We also want suggestions for solutions to digitize the process and gain control of the drawing and/or part through the workflow.

Task

To make a flowchart of our current manual flow of drawings and/or parts and analyze bottlenecks in the flow as well as summarize the hours spent in the non-value-based process.

The task also includes collecting data from various departments involved in the process and obtaining solutions for implementing a digitized process of handling the drawings.
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Contact
Caroline Johansson
caroline.johansson@avt.se

Dr. Björn Johansson
Professor Sustainable Production
bjorn.johansson@chalmers.se