

Art Production Facility

Challenge

A thriving Art Production Company needed more room to meet the demand of their popular art pieces. A new campus facility needed to be designed while at the same time, maximizing the assembly process and flow throughout the operation.

Response

CNA took the lead in the facility layout and optimization of assembly and processes. The approach was threefold:

1. Review the existing process and production requirements.
2. Determine growth impact.
3. Design a flow through facility capable of supporting growth over the next five years.

CNA has worked with internal company improvement teams and outside contractors. Among other process improvement projects, they have designed, developed, and implemented a prototype assembly line of workstations throughout the operation to reduce cost, building in quality and increasing through-put. The lessons learned from the prototypes are applied to other product lines. Examples include: moving into linear-line assembly techniques for canvas and frame assembly, designing ergonomically correct work stations with tilt up tables, installing task lighting for quality checks throughout the process, and designing parts bins within easy reach of operations.

Results

Accomplishments include an initial 10% increase in productivity within the first few days, with a realized productivity gain of 78% within two months on ergonomic design of the articulating table. There are similar reductions in eliminating rework. Further improvement is expected as these process improvements are fully implemented.