

CASE STUDY

Planning & Implementing Lean Manufacturing Processes into Plant Expansion to Increase Production Capacity

RESULTS

- ✓ Achieved client's goal to increase production by 250% through Value Stream Mapping, implementation of sustainable lean manufacturing processes, and support plant expansion and layout.
- ✓ Maximized efficiency of materials storage and workflow while supporting and tracking plant expansion objectives during six-month client engagement.

ASSIGNMENT

Support modular home manufacturer in plant expansion with a goal to increase production capacity by 250%; Provide highly experience consulting engineers and manager to assist with Value Stream Mapping (VSM) Workshop, implement facility modification project, and establish lean manufacturing concepts.

PROJECT SCOPE: Six Phase Plan



PHASE I: Current State Assessed; Prep for VSM

PHASE II: Conduct VSM; Document Outcome

PHASE III: Develop Job Scope & Facility Modification Plan; Establish Project Wall

PHASE IV: Coordinate Building Prep, Purchases & Project Planning

PHASE V: Implement Project; Establish Standard Facility; Assist in Start-up

PHASE VI: End of Engagement / Final Report and Transition

CHALLENGES/TASKS

- > Production limited by space constraints, access limitations, and inadequate process flow in existing production facility.
- > Aggressive two-year master plan outlined production capacity increase of 250%, requiring additional skilled resources to plan and implement expansion.
- > Resource requirements included 25+ years' experience launching new plants, products & equipment with focused experiences in lean design systems, project management & facility engineering.
- > Close coordination with client team to establish Value Stream Mapping deliverables, job scopes, and timeline; deliver technical expertise in workshop setting.
- > Maintenance of project tracking wall; reporting of progress and yearend facility rearrangement.
- > Coordinate all lean manufacturing layout modifications for material storage, movement, and operator functional use.