

JD GRAY ASSOCIATES CONTRACT INDUSTRIAL ENGINEERS

PRODUCTIVITY OPTION DETERMINATION - QUESTIONNAIRE

IF THERE ARE MANUFACTURING COMPANY OFFICIALS THAT WANT TO KNOW HOW TO MAKE THEIR OPERATION LEAN AND MORE EFFICIENT, ANSWER THE FOLLOWING AND WE WILL DETERMINE THE MOST APPROPRIATE PRODUCTIVITY OPTION.

MANUFACTURING COMPANIES

- WHAT IS YOUR FIVE-YEAR SALES FORECAST PERCENTAGE?
- HOW MANY DIFFERENT ASSEMBLY BUILD SEQUENCES (FAMILIES)?
- HOW MANY AVERAGE OPERATIONS PER FAMILY?
- HOW MANY AVERAGE SKU'S ARE THERE PER FAMILY?
- HOW MANY PLANT-WIDE DISCREET COMPONENT SKU'S?
- WHAT IS THE WEEKLY OUTPUT PER FAMILY?
- WHAT IS THE TOTAL WEEKLY OUTPUT PER FAMILY?
- WHAT IS THE AVERAGE NUMBER OF OPERATORS USED FOR EACH FAMILY?

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- WHAT IS THE MINIMUM / MAXIMUM SIZE AND WEIGHT OF YOUR PRODUCT LINE?

- HOW MANY DIFFERENT EXISTING ROUTINGS?

- CURRENT METHOD OF PICKING SKU'S FROM STOCKROOM?
 - ❑ Manual from Shelving or Pallet Rack
 - ❑ Manual from Flow Rack
 - ❑ Using Manual Live Storage and Retrieval (Parts)
 - ❑ Using Manual Live Storage and Retrieval (Parts) with Light Trees
 - ❑ Using Automated Live Storage and Retrieval (Parts)
 - ❑ Using Automated Retrieval (Pallet) System

- HOW MANY AVERAGE OPERATIONS/LOCATIONS PER ROUTING?

- HOW MANY STOCKROOM PICKING LOCATIONS?

- HOW IS WIP TRANSPORTED AFTER EACH OPERATION?
 - ❑ Hand Carry
 - ❑ Fork Truck using pallet
 - ❑ Conveyor
 - ❑ Guided Vehicle using pallet
 - ❑ Other

- HOW DO YOU NOW TRACK YOUR PRODUCT THRU WIP?

- WHAT IS YOUR AVERAGE DIRECT LABOR STANDARD PER OPERATION?

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- WHAT IS YOUR PERFORMANCE TO THIS STANDARD?

- WHAT ARE YOUR CURRENT DIRECT LABOR CONTROLS?
 - ❑ Historical Standards
 - ❑ Foreman's Estimates
 - ❑ Industrial Engineered Standards
 - ❑ Short-Interval-Scheduling
 - ❑ Labor Reporting
 - ❑ Other

- WHAT IS AN AVERAGE LOT SIZE?

- DESCRIBE YOUR CURRENT METHOD OF ASSEMBLY?

- WHAT IS YOUR CURRENT PLANT SQUARE FOOTAGE?

- WHAT ARE YOUR DEPARTMENTS NAMES AND THEIR SQUARE FOOTAGE?

- HOW MANY TOTAL PLANT-WIDE OPERATORS?

- HOW MANY DIRECT LABOR OPERATORS IN EACH DEPARTMENT?

- WHAT IS YOUR AVERAGE DIRECT LABOR RATE WITH FRINGE?

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- IS YOUR DIRECT LABOR PAID?
 - By the Hour
 - By Salary
 - By Incentive
 - Other

- HOW MANY INDIRECT LABOR OPERATORS FOR EACH DEPARTMENT?

- WHAT IS YOUR AVERAGE INDIRECT LABOR RATE WITH FRINGE?

- HOW MUCH IS YOUR STOCKROOM DOLLAR INVENTORY?

- HOW MUCH IS YOUR WIP DOLLAR INVENTORY?

- HOW MUCH IS YOUR FINISHED GOODS DOLLAR INVENTORY?

- WHAT ARE YOUR CARRYING CHARGES FOR EACH INVENTORY TYPE?

YOUR ANSWERS WILL DETERMINE THE PRODUCTIVITY OPTION MOST FEASIBLE

- INDUSTRIAL ENGINEERED STANDARDS AND METHODS
- ROI AUDIT OF FACILITY TO DEVELOP A COST REDUCTION MASTER PLAN WITHIN AREAS OF DIRECT LABOR CONTROLS, MATERIALS HANDLING ALTERNATIVES AND PRODUCT AUTOMATION
- SEMI-AUTOMATED PACED ASSEMBLY LINE SYSTEM
- PERFORMANCE BASED PAYMENT SYSTEM

THE IMPLEMENTATION OF OUR PRODUCTIVITY SYSTEMS CAN GENERATE SPACE AND LABOR SAVINGS FROM 15% TO 75%.

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PRODUCTIVITY OPTION DETERMINATION – QUESTIONNAIRE

IF THERE ARE DISTRIBUTION CENTER OFFICIALS THAT WANT TO KNOW HOW TO MAKE THEIR OPERATION LEAN AND MORE EFFICIENT, ANSWER THE FOLLOWING AND WE WILL DETERMINE THE MOST APPROPRIATE PRODUCTIVITY OPTION.

DISTRIBUTION CENTERS

- HOW MANY PLANT-WIDE DISCREET COMPONENT SKU'S?

- WHAT IS THE TOTAL WEEKLY OUTPUT BY PALLET LOAD?

- WHAT IS THE MINIMUM / MAXIMUM SIZE AND WEIGHT OF YOUR PRODUCTS?

- CURRENT METHOD OF PICKING SKU'S FROM WAREHOUSE?
 - Manual from Shelving or Pallet Rack
 - Manual from Flow Rack
 - Using Manual Live Storage and Retrieval (Parts)
 - Using Manual Live Storage and Retrieval (Parts) with Light Trees
 - Using Automated Live Storage and Retrieval (Parts)
 - Using Automated Retrieval (Pallet) System

- HOW MANY WAREHOUSE PICKING LOCATIONS?

- HOW ARE PICKED PARTS TRANSPORTED?
 - Hand Carry
 - Fork Truck using pallet
 - Conveyor
 - Guided Vehicle using pallet
 - Other

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- HOW DO YOU NOW TRACK YOUR PRODUCTS?

- WHAT IS YOUR AVERAGE DIRECT LABOR STANDARD PER PICKING OPERATION?

- WHAT IS YOUR PERFORMANCE TO THIS STANDARD?

- WHAT ARE YOUR CURRENT DIRECT LABOR CONTROLS?
 - ❑ Historical Standards
 - ❑ Foreman's Estimates
 - ❑ Industrial Engineered Standards
 - ❑ Short-Interval-Scheduling
 - ❑ Labor Reporting
 - ❑ Other

- HOW MANY AVERAGE COMPONENT PICKS PER ORDER?

- WHAT IS YOUR CURRENT PLANT SQUARE FOOTAGE?

- WHAT ARE YOUR DEPARTMENTS NAMES AND THEIR SQUARE FOOTAGE?

- HOW MANY TOTAL PLANT-WIDE OPERATORS?

- HOW MANY OPERATORS IN EACH DEPARTMENT?

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- WHAT IS YOUR AVERAGE LABOR RATE WITH FRINGE?

- WHAT IS YOUR CARRYING CHARGE ON INVENTORY?

- IS YOUR DIRECT LABOR PAID?
 - By the Hour
 - By Salary
 - By Incentive
 - Other

- HOW MUCH IS YOUR WAREHOUSE DOLLAR INVENTORY?

YOUR ANSWERS WILL DETERMINE THE PRODUCTIVITY OPTION MOST FEASIBLE

- INDUSTRIAL ENGINEERED STANDARDS AND METHODS
- ROI AUDIT OF FACILITY TO DEVELOP A COST REDUCTION MASTER PLAN WITHIN AREAS OF DIRECT LABOR CONTROLS AND MATERIALS HANDLING ALTERNATIVES
- PERFORMANCE BASED PAYMENT SYSTEM

THE IMPLEMENTATION OF OUR PRODUCTIVITY SYSTEMS CAN GENERATE SPACE AND LABOR SAVINGS FROM 15% TO 60%.