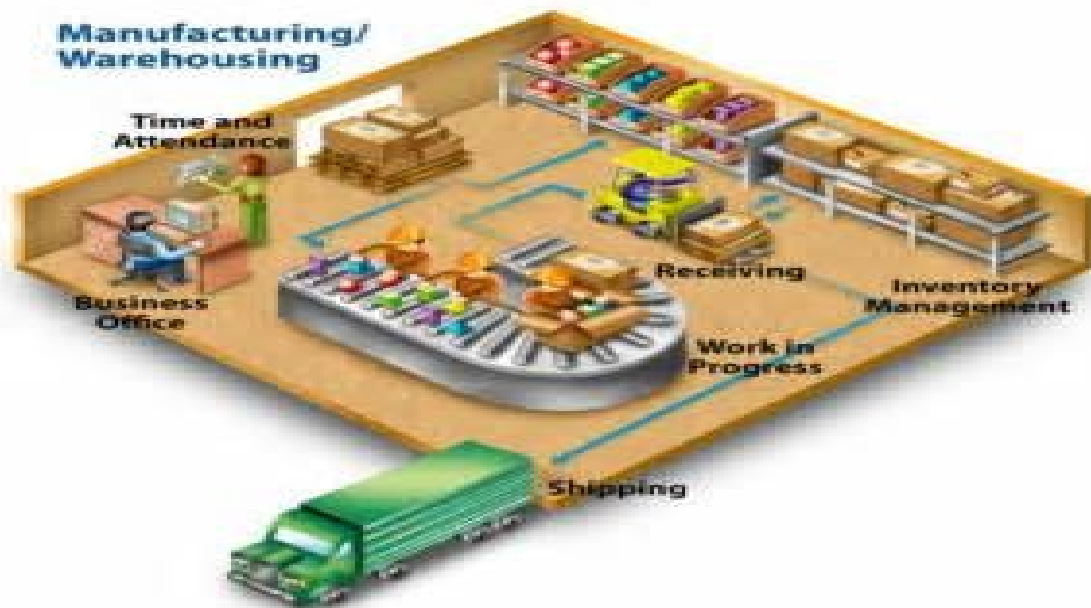


JD GRAY ASSOCIATES
CONTRACT INDUSTRIAL ENGINEERING CONSULTANTS

FLIER

MANUFACTURING / WAREHOUSE LABOR STANDARDS KIT



LET OUR EXPERIENCE WORK FOR YOU!

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**JD GRAY ASSOCIATES
CONTRACT INDUSTRIAL ENGINEERING CONSULTANTS**

WAREHOUSE LABOR STANDARDS KIT

As an adjunct to our manufacturing productivity systems, we have a special service for companies that wish to undertake the improvement program themselves. Entitled the **WAREHOUSE LABOR STANDARDS KIT** this service can be used for your existing inbound and outbound operation in the setting of industrial engineered standards.

If you're current method of operation is characterized by:

HISTORICAL STANDARDS
POOR OPERATOR PERFORMANCE LEVELS
UNMEASURABLE DOWNTIME
INACCURATE PRODUCT COSTING
OVERDUE SCHEDULES
EXCESSIVE LABOR BURDEN

Our **WAREHOUSE LABOR STANDARDS KIT** can save you money! JD Gray Associates has developed inbound and outbound time values for conventional warehouses and plotted them on a work sheet format allowing standards to be set accurately. The **WAREHOUSE LABOR STANDARDS KIT** addresses *six inbound job codes* of truck pallet unloading, pallet put-a-way, case sku breakdown, case put-a-way, replenish case, replenish pallet as well as *three outbound job codes* of pick case, pick pallet, truck pallet loading.

The Warehouse Labor Standards Kit includes:

- Job code fixed work elements with leveled times & a work station sketch
- A variable travel time work sheet:
 - 1) Hand truck loaded and unloaded time values
 - 2) Fork truck loaded and unloaded time values
- A variable pallet rack slot level time option work sheet for:
 - 1) Floor level
 - 2) 2nd level
 - 3) 3rd level
- IE standard formula for single case and pallet put-a-way – examples
- IE standard formula for multi case and pallet put-a-way – examples
- IE standard formula for several case and pallet put-a-way locations – examples
- Pick and replenish case IE labor formulas

Variable travel time, work elements require client to plot facility layout footage to our work sheets resulting in a customized IE standard. We would be pleased to assist you in this effort and will send a proposal under separate cover upon request.

We are offering this service to the warehouse industry for the nominal consulting fees identified on the following page. Select any or all of the job codes listed and mail your payment to JD Gray Associates PO Box 63 Summit Hill, PA 18250. Outside USA use Western Union. This is a fraction of the cost you would incur to employ an industrial engineer for development of this data. Available in hard copy or electronic format.



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INBOUND COST OPTIONS

JOB CODE	ITEM	PGS	\$	ORDER
TRUCK PALLET UNLOADING	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET 	3	\$75	
PALLET PUT-A-WAY	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET ▪ IE STANDARD FORMULA FOR SINGLE PALLET PUT-A-WAY - EXAMPLE ▪ IE STANDARD FORMULA FOR MULTI PALLET PUT-A-WAY - EXAMPLE 	4	\$150	
CASE SKU BREAKDOWN	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH 	2	\$50	
CASE PUT-A-WAY	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ IE STANDARD FORMULA FOR SINGLE CASE PUT-A-WAY - EXAMPLE ▪ IE STANDARD FORMULA FOR SEVERAL CASE PUT-A-WAY LOCATIONS - EXAMPLE 	4	\$125	
REPLENISH CASE	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET ▪ REPLENISH CASE IE LABOR FORMULA ▪ IE STANDARD FORMULA FOR SEVERAL CASE PUT-A-WAY LOCATIONS - EXAMPLE 	4	\$150	
REPLENISH PALLET	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET ▪ IE STANDARD FORMULA FOR SEVERAL PALLET PUT-A-WAY LOCATIONS - EXAMPLE 	4	\$125	

OUTBOUND COST OPTIONS

JOB CODE	ITEM	PGS	\$	ORDER
PICK CASE	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET ▪ PICK CASE IE LABOR FORMULA ▪ IE STANDARD FORMULA FOR SINGLE CASE PICK - EXAMPLE 	5	\$150	
PICK PALLET	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET ▪ IE STANDARD FORMULA FOR SINGLE PALLET PICK - EXAMPLE 	4	\$125	
TRUCK PALLET LOADING	<ul style="list-style-type: none"> ▪ FIXED WORK ELEMENTS, LEVELED TIME & SKETCH ▪ VARIABLE TRAVEL TIME WORK SHEET ▪ VARIABLE PALLET RACK SLOT LEVEL TIME OPTION WORK SHEET 	4	\$100	

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