# **Resource Utilization-Production study-Loss time analysis**



## **Key Points**

- -Resources utilisation calculated
- -Reason wise loss contribution
- -Suggestion for improvement in loss areas
- -Template for work content measurement in advance

### **Client's Challenge**

- -Work content measurement
- -Resource utilisation
- -Estimate time for welding & fitting activity in advance

## PMI's Approach\_

- -Identification of operations to be studied
- -Recording Loss time observation in Loss capturing sheet using Production Study
- -Video Shooting of repetitive processes
- -Loss time & VA/NVA analysis & Work content calculation
- -Standardisation of work content for template preparation
- -Listing of improvements

#### Results

- -Calculated resource requirement
- -Suggested for elimination of NVA activities (about 40%)
- -Prepared template for current/new product's work content calculation for fabrication & fitting in advance

	ři	114				MASTER TEMPLATE FOR MMA WELDING																		
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r. No.	Input parameters	Input										
		HEAVY (>50kg)	MEDIUM (5-50 kg)	SMALL PARTS (1-5 kg)	Small (Nut & bolts (1-5 kg)							
1	Number of similar child parts (Nos.)	1	1	1	1							
2	Number of dimension involved to perform assembly of one child part (Nos.)	4	4	4	N/A							
ſ	Total project (cycle) timing required in Min =	37.50	18.70	6.14	1.98							
	Hrs. =	0.63	0.31	0.10	0.03							
	Total Work content in Min =	75.01	37.41	6.14	1.98							
L	Hrs. =	1.25	0.62	0.10	0.03							
	Mandays to complete Project =	1	1	1	1							
	Shifts reqd. to complete the Project =	0.17	0.04	0.01	0.00							
	Enter Manpower to complete Project in a shift =	1	2	2	2							
[	Total timing for a project in Min =	64.32	1 _									
	Total work content for a project in Min =	120.53	Note - Entervalues in Output justin									
	Mandays required to complete a project =	1										
	Total nos of shifts required to complete a project =	0.07	C									
	Input mandays to reduce shift =	4										





\*Data shown here has been modified to protect client confidentiality

