Process Sequence with average time and standard deviation

PRODUCT 1

Part No	Work Center No	Sequence No	Std. Dev.	
124672	REC	1 3.18		1
124672	QA INSPECT	2 5.79		2
124672	CNC HORIZ	3	0.4	
124672	CNC HORIZ	4	0.4	
124672	CNC HORIZ	5	4.24	0.4
124672	MAN SFTLTH	6	4.19	1.7
124672	CNC HORIZ	7	3.62	0.4
124672	CNC HORIZ	8	8 3.58	
124672	CNC HORIZ	9 4.52		0.4
124672	MAN MILL	10 4.75		1.5
124672	MAN KEY	11 0.97		0.1
124672	QA INSPECT	12 9.00		2
124672	DRESS	13 1.84		0.2
124672	QA INSPECT	14 2.88		2
124672	ASSEMBLY	15 4.44		0.5
124672	DRESS BAL	16 2.10		0.2
124672	DRESS BAL	17 2.14		0.2
124672	QA INSPECT	18 4.54		2
124672	SHIP	19 2.37		0.75

PRODUCT 2

Part No	Work Center No	Sequence No Avg. Hours S		Std. Dev.
126054	REC	1 2.48		1
126054	QA INSPECT	2 7.13		2
126054	CNC HORIZ	3	0.3	
126054	CNC HORIZ	4	0.3	
126054	MAN SFTLTH	5	1.7	
126054	CNC HORIZ	6	0.3	
126054	MAN MILL	6 2.54 7 3.09		1.5
126054	OSP	8 0.91		0.1
126054	QA INSPECT			2
126054	DRESS			0.2
126054	QA INSPECT	11 3.51		2
126054	CNC HORIZ	12 2.09		0.3
126054	DRESS BAL	13 1.92		0.2
126054	CNC HORIZ	14 1.84		0.3
126054	QA INSPECT	15 5.88		2
126054	SHIP	16 3.19		0.75

Process Sequence with average time and standard deviation

PRODUCT 3

Part No	Work Center No	Sequence No	Avg. Hours	Std. Dev.
126293	REC	1	2.01	1
126293	QA INSPECT	2	5.63	1.5
126293	CNC HORIZ	3	1.98	0.3
126293	CNC HORIZ	4	4 1.73	
126293	MAN MILL	5	1.84	1
126293	MAN KEY	6	0.99	0.1
126293	DRESS	7	1.83	0.2
126293	DRESS BAL	8	1.89	0.2
126293	TESTING	9	4.14	1
126293	QA INSPECT	10	4.21	1.5
126293	SHIP	11	1.66	0.75

PRODUCT 4

Part No	Work Center	Sequence No	Avg. Hours	Std. Dev.
121757	REC	1	3.96	1
121757	QA INSPECT	2	6.34	1.5
121757	CNC HORIZ	3	1.75	0.3
121757	CNC HORIZ	4	4 1.64	
121757	MAN MILL	VIILL 5 2.6		1
121757	MAN KEY 6 1.07		0.1	
121757	DRESS	7 2.14		0.2
121757	DRESS BAL	8 2.02		0.2
121757	TESTING	9 5.16		1
121757	QA INSPECT	10 4.44		1.5
121757	SHIP	11	1.79	0.75

Cost of workcenters with their respective set-up times MTTF and standard deviation

Work Center No	Description	(Cost of WC	Setup Time	Avg. Run Hrs (no breakdown)	Std. Dev for Breakdown
ASSEMBLY	ASSEMBLY	\$	10,000.00	2	N/A	N/A
CNC HORIZ	CNC HORIZ	\$	50,000.00	0.5	24	3
DRESS	DRESS	\$	8,000.00	0.5	48	4
DRESS BAL	DRESS BAL	\$	2,000.00	0.1	100	1
ENG LATHE	ENG LATHE	\$	20,000.00	0.5	200	5
MAN KEY	MAN KEY	\$	7,000.00	0.5	72	3
MAN MILL	MAN MILL	\$	10,000.00	0.5	36	2
MAN SFTLTH	MAN SFTLTH	\$	25,000.00	0.5	300	10
OSP	OSP	\$	9,000.00	0.1		
QA INSPECT	QA INSPECT	\$	5,000.00	0.5		
REC	RECEIVING	\$	100,000.00	N/A	N/A	N/A
SHIP	SHIPPING	\$	100,000.00	N/A	N/A	N/A
TESTING	TESTING	\$	8,500.00	0.5	200	3