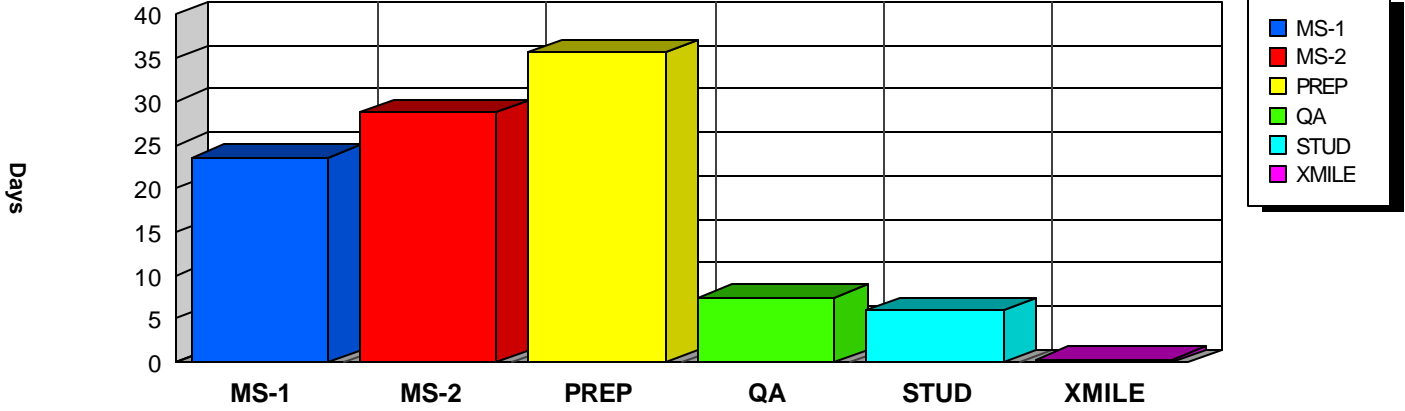


## Work Center Bottleneck Analysis

Days of Backlog Per Work Center

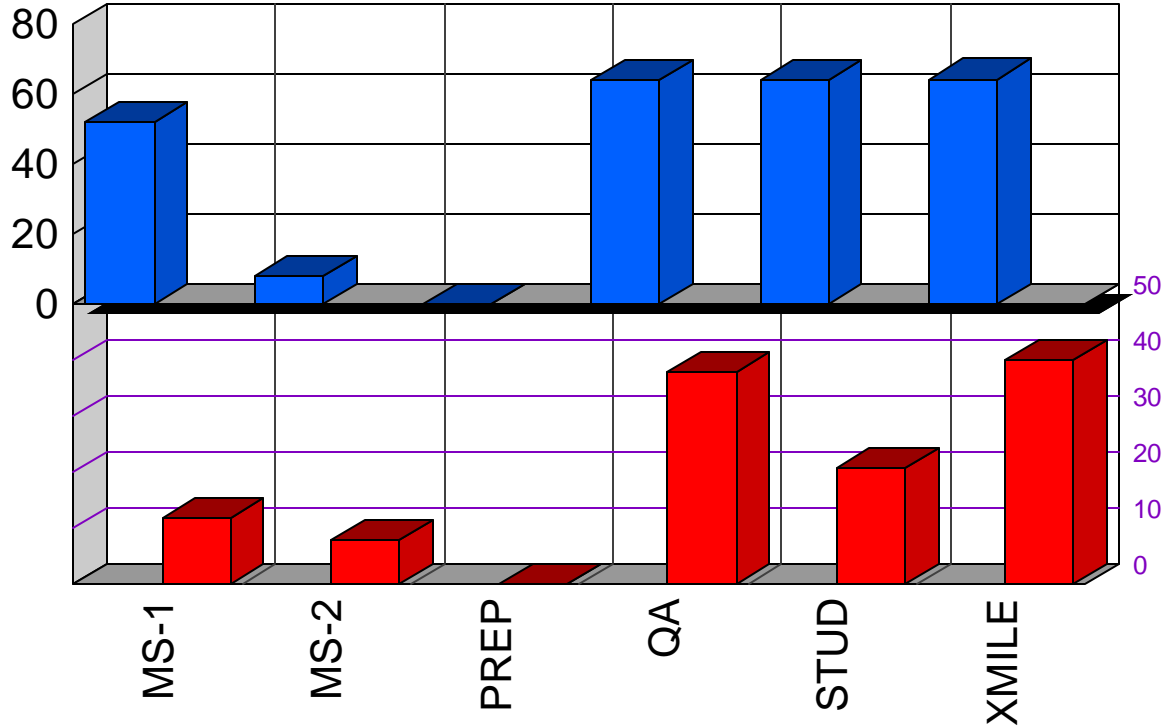


11/29

<u>Work Center</u>	<u>Description</u>	<u>Stations</u>	<u>Backlog Hrs</u>	<u>Capacity/Day</u>	<u>Backlog Days</u>
MS-1	LCMS New	2	942.30	40.00	23.60
MS-2	LCMS Old	3	1,380.00	48.00	28.80
PREP	Preparation Teams	4	1,143.50	32.00	35.70
QA	QA Inspector	4	240.00	32.00	7.50
STUD	Study Director	4	189.00	32.00	5.90
XMILE	Milestones	1	2.40	8.00	0.30

## Bottleneck Capacity Analysis

Maximum Hours Queued Per Order,  
Average Hours Queued Per Order



<u>Work Center</u>	<u>Description</u>	<u>Tasks to Process</u>	<u>Est. Tasks Queued</u>	<u>Est. Average Hrs in Queue</u>	<u>Est. Maximum Hrs in Queue</u>
MS-1	LCMS New	9	6	12.00	52.00
MS-2	LCMS Old	9	6	8.00	8.00
PREP	Preparation Teams	6	0	0.00	0.00
QA	QA Inspector	12	11	37.80	64.00
STUD	Study Director	24	22	20.80	64.00
XMILE	Milestones	24	2	40.10	64.20

## Capacity Requirements Report

WC NO	Capacity Demand Hrs												
	Work Center Name	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
MS-1	LCMS New			80	100	100	86	75	100	76			
MS-1	LCMS New			80	100	89	56						
MS-2	LCMS Old			64	80	80	80	80	72	80	80	32	
MS-2	LCMS Old			64	80	80	80	72	80	52			
MS-2	LCMS Old						16	80	70	58			
PREP	Preparation Teams			32	40	40	40	40	40	40	40	36	
PREP	Preparation Teams			32	40	40	40	40	40	40	1		
PREP	Preparation Teams			32	40	40	40	35	40	36			
PREP	Preparation Teams			32	40	40	35	40	40	33			
QA	QA Inspector											16	24
QA	QA Inspector										32	8	
QA	QA Inspector								32	8	32	8	
QA	QA Inspector						8	32			32	8	
STUD	Study Director								8			8	16
STUD	Study Director								8		8	8	
STUD	Study Director						8	8	8	16	8	16	
STUD	Study Director					8	8	8	8	16	8	8	

WC NO	Pct Utilization												
	Work Center Name	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
MS-1	LCMS New		0	80	100	100	86	75	100	76	0	0	0
MS-1	LCMS New		0	80	100	89	56	0	0	0	0	0	0
MS-2	LCMS Old		0	80	100	100	100	100	90	100	100	40	0
MS-2	LCMS Old		0	80	100	100	100	90	100	65	0	0	0
MS-2	LCMS Old		0	0	0	0	20	100	88	73	0	0	0
PREP	Preparation Teams		0	80	100	100	100	100	100	100	100	90	0
PREP	Preparation Teams		0	80	100	100	100	100	100	100	3	0	0
PREP	Preparation Teams		0	80	100	100	100	88	100	90	0	0	0
PREP	Preparation Teams		0	80	100	100	88	100	100	83	0	0	0
QA	QA Inspector		0	0	0	0	0	0	0	0	0	40	60
QA	QA Inspector		0	0	0	0	0	0	0	0	80	20	0
QA	QA Inspector		0	0	0	0	0	0	80	20	80	20	0
QA	QA Inspector		0	0	0	0	20	80	0	0	80	20	0
STUD	Study Director		0	0	0	0	0	0	20	0	0	20	40
STUD	Study Director		0	0	0	0	0	20	0	20	20	20	0
STUD	Study Director		0	0	0	0	20	20	20	40	20	40	0
STUD	Study Director		0	0	0	20	20	20	20	40	20	20	0

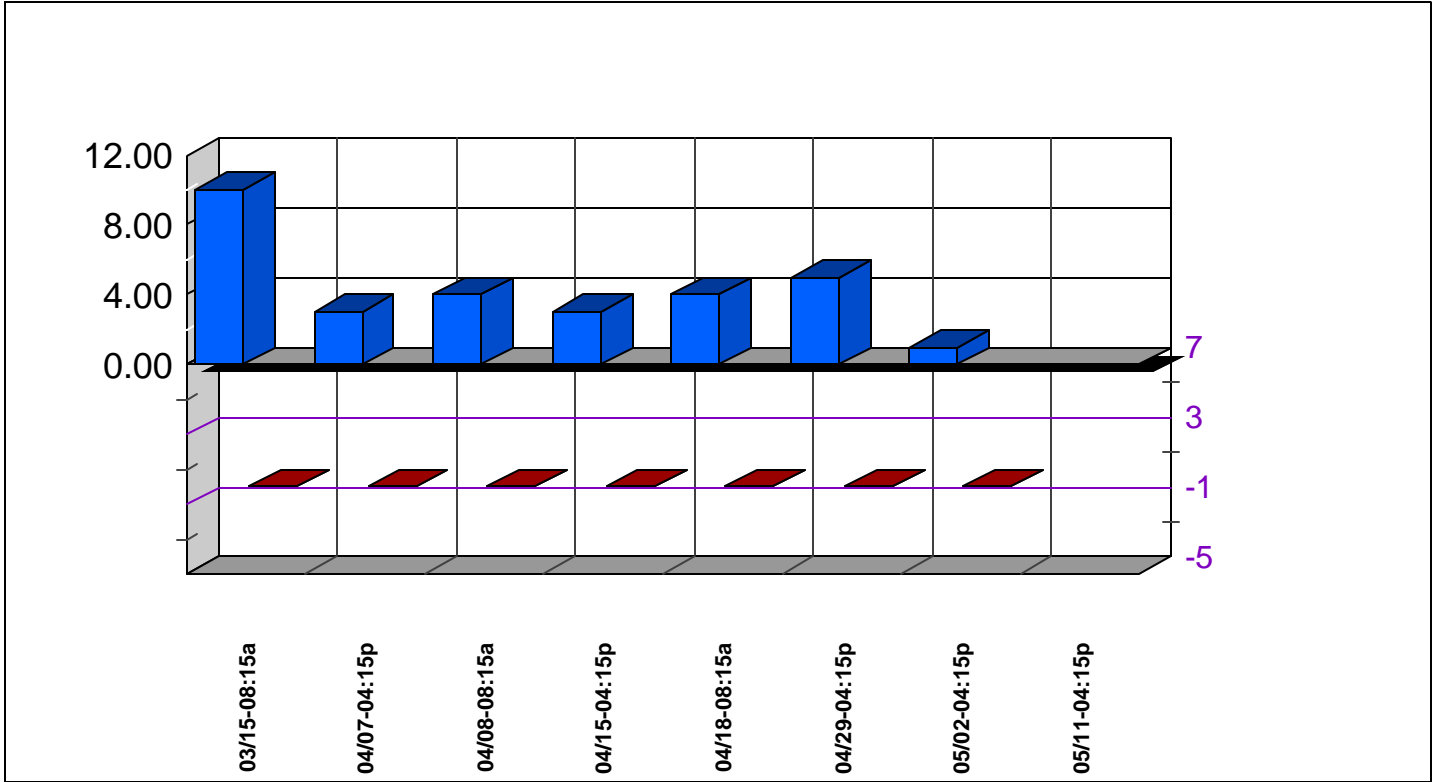


# JobTime Sample Reports - Scheduling Medical Equipment

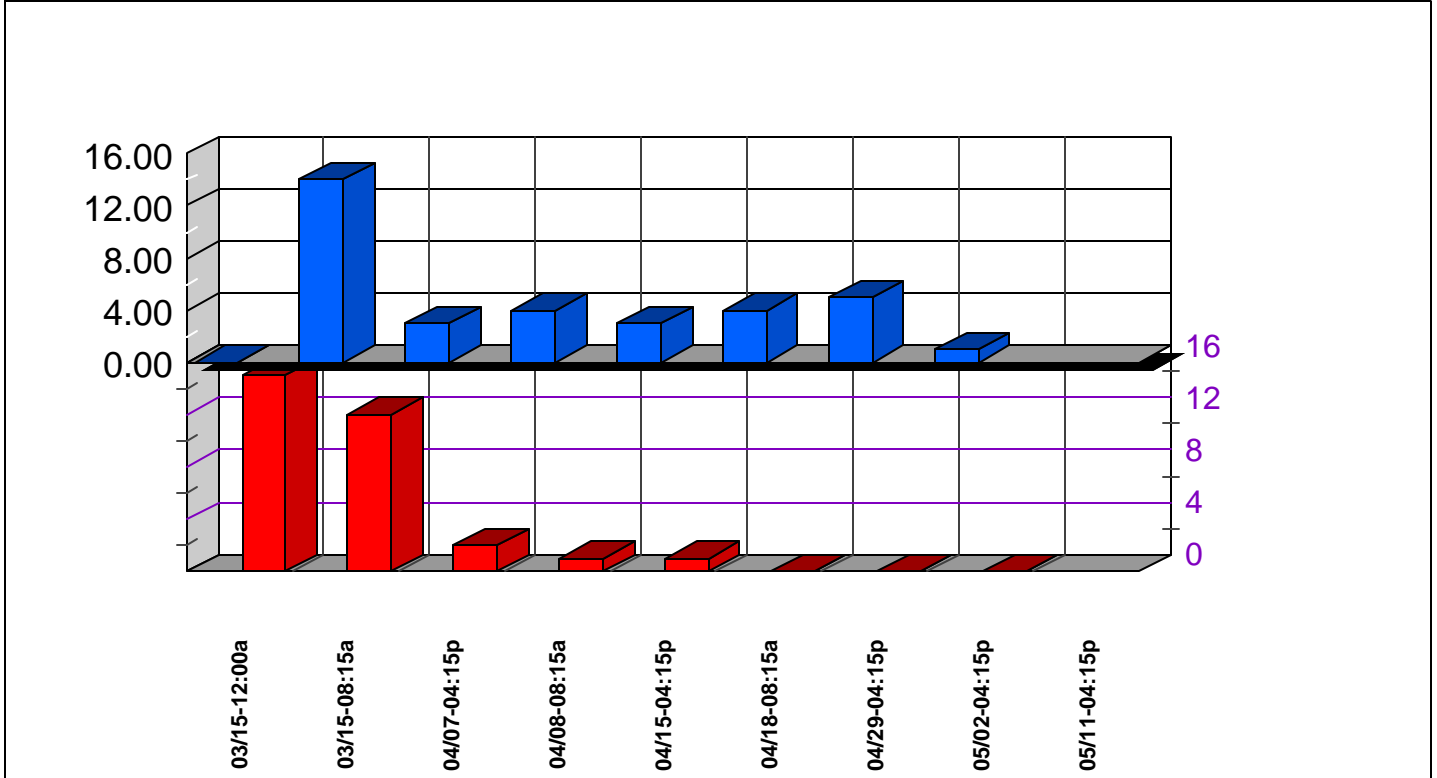
WC NO	Unused Capacity Hrs Work Center Name	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
		MS-1	LCMS New		100	20			14	25		24	100
MS-1	LCMS New		100	20		11	44	100	100	100	100	100	100
MS-2	LCMS Old		80	16					8			48	80
MS-2	LCMS Old		80	16				8		28	80	80	80
MS-2	LCMS Old		80	80	80	80	64		10	22	80	80	80
PREP	Preparation Teams		40	8								4	40
PREP	Preparation Teams		40	8							39	40	40
PREP	Preparation Teams		40	8				5		4	40	40	40
PREP	Preparation Teams		40	8			5			7	40	40	40
QA	QA Inspector		40	40	40	40	40	40	40	40	40	24	16
QA	QA Inspector		40	40	40	40	40	40	40	40	8	32	40
QA	QA Inspector		40	40	40	40	40	40	8	32	8	32	40
QA	QA Inspector		40	40	40	40	32	8	40	40	8	32	40
STUD	Study Director		40	40	40	40	40	40	32	40	40	32	24
STUD	Study Director		40	40	40	40	40	32	40	32	32	32	40
STUD	Study Director		40	40	40	40	32	32	32	24	32	24	40
STUD	Study Director		40	40	40	32	32	32	32	24	32	32	40

## Stations In Use and Orders in the Queue Over Time by Work Center

Work Center:      **AQA**                      **QA Constraint**



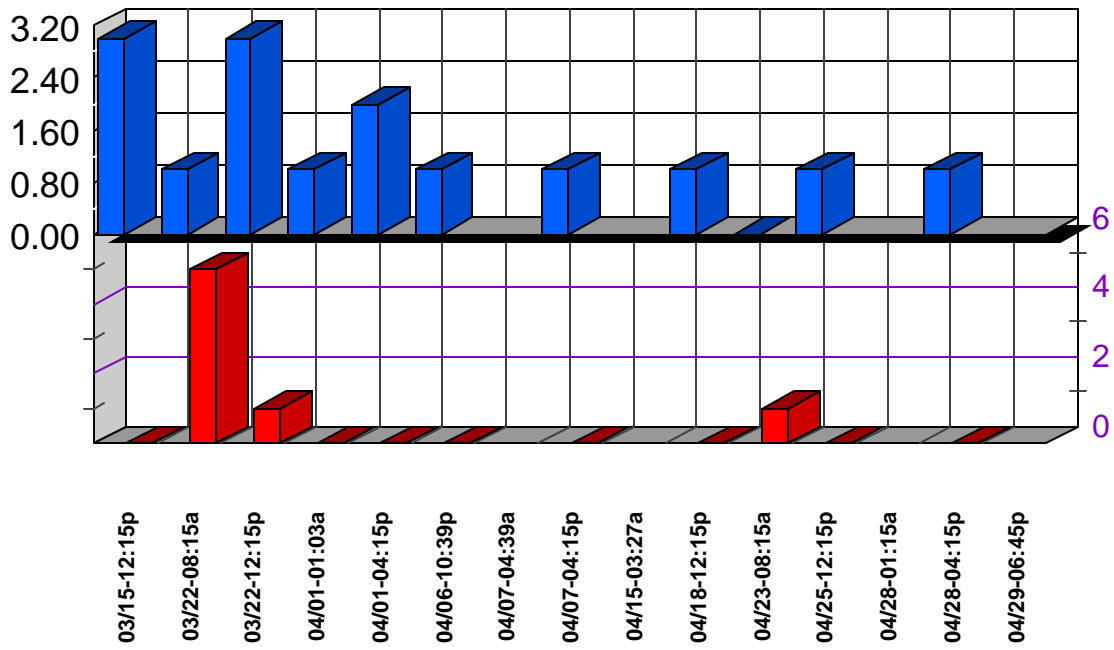
Work Center: **ASTUD**      **STUD Constraint**



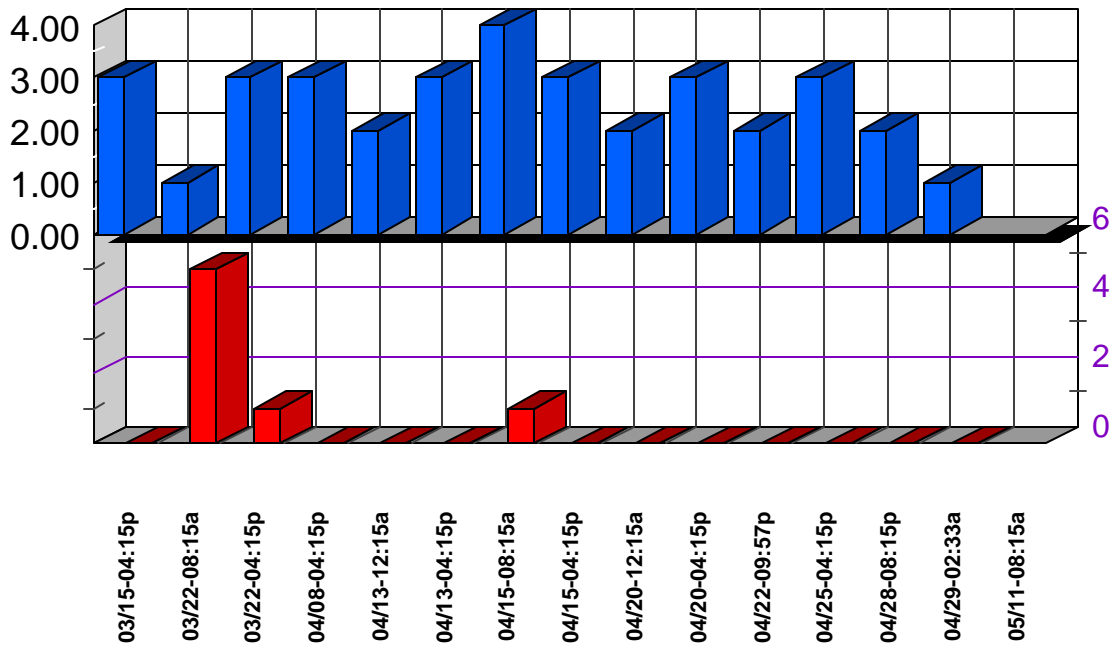
Work Center:

MS-1

LCMS New



Work Center: MS-2 LCMS Old





## Shift Patterns (Resource Calendars)

**Pat No** DS1      **Description** Day Shift      **Shift 1 Start Time:** 08:15a

**COMMENTS**

	<u>Sun</u>	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Total Hours</u>	<u>Total CumHrs</u>
<b>Mins on Shift 1</b>	0	480	480	480	480	480	0	40.00	40.00
<b>Mins on Shift 2</b>	0	0	0	0	0	0	0	40.00	80.00
<b>Mins on Shift 3</b>	0	0	0	0	0	0	0	40.00	120.00

**Pat No** MS1      **Description** MS Type 1 (new)      **Shift 1 Start Time:** 12:15p

**COMMENTS**

Regeneration time: 8:15am-12:15pm

	<u>Sun</u>	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Total Hours</u>	<u>Total CumHrs</u>
<b>Mins on Shift 1</b>	0	240	240	240	240	240	0	20.00	20.00
<b>Mins on Shift 2</b>	0	480	480	480	480	480	0	60.00	80.00
<b>Mins on Shift 3</b>	0	480	480	480	480	480	0	100.00	180.00

**Pat No** MS2      **Description** MS Type 2 (old)      **Shift 1 Start Time:** 04:15p

**COMMENTS**

Regeneration Time: 8:15am - 4:15pm

	<u>Sun</u>	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Total Hours</u>	<u>Total CumHrs</u>
<b>Mins on Shift 1</b>	0	480	480	480	480	480	0	40.00	40.00
<b>Mins on Shift 2</b>	0	480	480	480	480	480	0	80.00	120.00
<b>Mins on Shift 3</b>	0	0	0	0	0	0	0	80.00	200.00

**Pat No** PLNT      **Description** Plant Shift Pattern      **Shift 1 Start Time:** 08:00a

**COMMENTS**

Default pattern and plant-wide holidays

	<u>Sun</u>	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Total Hours</u>	<u>Total CumHrs</u>
<b>Mins on Shift 1</b>	480	480	480	480	480	480	480	56.00	56.00
<b>Mins on Shift 2</b>	480	480	480	480	480	480	480	112.00	168.00
<b>Mins on Shift 3</b>	480	480	480	480	480	480	480	168.00	336.00



# JobTime Sample Reports - Scheduling Medical Equipment

<b>Pat No</b>	PREP	<b>Description</b>	Preparation					<b>Shift 1 Start Time:</b>	08:15a	
<b>COMMENTS</b>	Preparation of machines									
	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>	<b>Total Hours</b>	<b>Total CumHrs</b>	
<b>Mins on Shift 1</b>	0	480	480	480	480	480	0	40.00	40.00	
<b>Mins on Shift 2</b>	0	0	0	0	0	0	0	40.00	80.00	
<b>Mins on Shift 3</b>	0	0	0	0	0	0	0	40.00	120.00	
<b>Pat No</b>	QA	<b>Description</b>	Quality Assurance					<b>Shift 1 Start Time:</b>	08:15a	
<b>COMMENTS</b>										
	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>	<b>Total Hours</b>	<b>Total CumHrs</b>	
<b>Mins on Shift 1</b>	0	480	480	480	480	480	0	40.00	40.00	
<b>Mins on Shift 2</b>	0	0	0	0	0	0	0	40.00	80.00	
<b>Mins on Shift 3</b>	0	0	0	0	0	0	0	40.00	120.00	
<b>Pat No</b>	STUD	<b>Description</b>	Study Director					<b>Shift 1 Start Time:</b>	08:15a	
<b>COMMENTS</b>										
	<b>Sun</b>	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>	<b>Sat</b>	<b>Total Hours</b>	<b>Total CumHrs</b>	
<b>Mins on Shift 1</b>	0	480	480	480	480	480	0	40.00	40.00	
<b>Mins on Shift 2</b>	0	0	0	0	0	0	0	40.00	80.00	
<b>Mins on Shift 3</b>	0	0	0	0	0	0	0	40.00	120.00	

<b>Work Center Status Report</b>										
WC No	Description	\$/Hr	Shift Pattern	Hours			Resources		Operations	
				On Shift1	On Shift2	On Shift3	On Shift1	On Shift2	On Shift3	Capacity/Day Hrs Backlog Backlog Days
MS-1	LCMS New	1.00	MS1	20.00			2	40.0	6	
				40.00			2	942.3	9	
				40.00			2	23.6	52.00	
MS-2	LCMS Old	1.00	MS2	40.00			3	48.0	6	
				40.00			3	1,380.0	9	
				0.00			0	28.8	8.00	
PREP	Preparation Teams	1.00	DS1	40.00			4	32.0	0	
				0.00			0	1,143.5	6	
				0.00			0	35.7	0.00	
QA	QA Inspector	1.00	QA	40.00			4	32.0	11	
				0.00			0	240.0	12	
				0.00			0	7.5	64.00	
STUD	Studv Director	1.00	DS1	40.00			4	32.0	22	
				0.00			0	189.0	24	
				0.00			0	5.9	64.00	
XMILE	Milestones	0.00	DS1	40.00			1	8.0	2	
				0.00			0	2.4	24	
				0.00			0	0.3	64.20	



# JobTime Sample Reports - Scheduling Medical Equipment

## Work Order List

Order Number Description	Customer Number	Quantity	Due Date	Days Early <Late>	Percent Complete	Estimated Start Date	Estimated Finish Date
C1	CUS1	450	04/16	-24.70	0.0	04/18	05/11
C4	CUS1	3,600	04/08	-31.70	0.0	03/15	05/10
D2	CUS1	1,166	04/11	-29.30	0.0	04/08	05/11
G2	CUS1	2,224	04/06	-19.70	0.0	03/15	04/26
H8	CUS1	1,448	04/03	-14.70	0.0	03/15	04/18
A1	CUS1	4,800	04/21	-28.70	0.0	03/15	05/20

## Work Order Detail Report

Work Order	Description	Qty Units	Due Date	Days Early <Late>	Percent Complete	Estimated Start Date	Estimated Finish Date
AAC1	FLUTAMIDE	450	04/16	-24.70	0	04/18	05/11

Seq No	Work Center	Finish	Task Description	Setup	Units/Hour	Opn Hrs
004	Preparation Teams	05/02	Preparation Team	48.00	16.00	76.10
010	LCMS New	04/23	Lead In - 5 Days	100.00	0.00	100.00
020	LCMS New	04/28	Analysis	8.00	10.00	53.00
030	Study Director	04/28	DataReview	7.90	0.00	7.90
040	Milestones	04/28	Client Review Milestone 1	0.10	0.00	0.10
050	LCMS New	04/29	Nightly Processing	0.00	20.00	22.50
060	Study Director	05/02	Final Review	8.00	0.00	8.00
070	QA Inspector	05/06	QA Inspector	32.00	0.00	32.00
080	Study Director	05/09	Corrections	7.80	0.00	7.80
090	Milestones	05/09	Data to Client Milestone 2	0.10	0.00	0.10
100	Milestones	05/09	Report to QA Milestone 3	0.10	0.00	0.10
110	QA Inspector	05/10	Final QA	8.00	0.00	8.00
120	Study Director	05/11	Final Corrections	7.80	0.00	7.80
130	Milestones	05/11	Report to Client Milestone 4	0.10	0.00	0.10



# JobTime Sample Reports - Scheduling Medical Equipment

AAC4		GAMMA		3,600	04/08	-31.70	0	03/15	05/10
Seq No	Work Center	Finish	Task Description	Setup	Units/Hour	Opn Hrs			
004	Preparation Teams	04/29	Preparation Team	48.00	16.00	273.00			
010	LCMS Old	03/22	Lead In - 5 Days	80.00	0.00	80.00			
020	LCMS Old	04/13	Analysis	8.00	15.00	248.00			
030	Study Director	04/13	DataReview	7.90	0.00	7.90			
040	Milestones	04/13	Client Review Milestone 1	0.10	0.00	0.10			
050	LCMS Old	04/28	Nightly Processing	0.00	20.00	180.00			
060	Study Director	04/29	Final Review	8.00	0.00	8.00			
070	QA Inspector	05/05	QA Inspector	32.00	0.00	32.00			
080	Study Director	05/06	Corrections	7.80	0.00	7.80			
090	Milestones	05/06	Data to Client Milestone 2	0.10	0.00	0.10			
100	Milestones	05/06	Report to QA Milestone 3	0.10	0.00	0.10			
110	QA Inspector	05/09	Final QA	8.00	0.00	8.00			
120	Study Director	05/10	Final Corrections	7.80	0.00	7.80			
130	Milestones	05/10	Report to Client Milestone 4	0.10	0.00	0.10			

AAD2		EPSILON		1,166	04/11	-29.30	0	04/08	05/11
Seq No	Work Center	Finish	Task Description	Setup	Units/Hour	Opn Hrs			
004	Preparation Teams	04/29	Preparation Team	48.00	16.00	120.90			
010	LCMS Old	04/15	Lead In - 5 Days	80.00	0.00	80.00			
020	LCMS Old	04/22	Analysis	8.00	15.00	85.70			
030	Study Director	04/25	DataReview	7.90	0.00	7.90			
040	Milestones	04/25	Client Review Milestone 1	0.10	0.00	0.10			
050	LCMS Old	04/29	Nightly Processing	0.00	20.00	58.30			
060	Study Director	04/29	Final Review	8.00	0.00	8.00			
070	QA Inspector	05/05	QA Inspector	32.00	0.00	32.00			
080	Study Director	05/06	Corrections	7.80	0.00	7.80			
090	Milestones	05/09	Data to Client Milestone 2	0.10	0.00	0.10			
100	Milestones	05/09	Report to QA Milestone 3	0.10	0.00	0.10			
110	QA Inspector	05/10	Final QA	8.00	0.00	8.00			
120	Study Director	05/10	Final Corrections	7.80	0.00	7.80			
130	Milestones	05/11	Report to Client Milestone 4	0.10	0.00	0.10			

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## Work Center Detail Schedule

### WC - Station

**MS-1A**

**LCMS New**

Prior WC Next WC Est Days Early <Late>	Est Start Est Finish Due Date	Task Name Routing Order-SeqNo	Setup Hrs Process Hrs UOM	Step Qty QtyComp QtyToGo	BudgetHrs SpentHrs HrsToGo
PREP MS-1 <b>-19.70</b>	03/15-12:15p 03/22-08:15a 04/06	<a href="#">Lead In - 5 Days</a> MS1ROUTE AAG2-010	100.00 0.00 EA	1 0 1	100.00 0.00 100.00
MS-1 STUD <b>-19.70</b>	03/22-12:15p 04/06-10:39p 04/06	<a href="#">Analysis</a> MS1ROUTE AAG2-020	8.00 10.00 EA	2,224 0 2,224	230.40 0.00 230.40
XMILE STUD <b>-19.70</b>	04/07-04:15p 04/15-03:27a 04/06	<a href="#">Nightly Processing</a> MS1ROUTE AAG2-050	0.00 20.00 EA	2,224 0 2,224	111.20 0.00 111.20
PREP MS-1 <b>-24.70</b>	04/18-12:15p 04/23-08:15a 04/16	<a href="#">Lead In - 5 Days</a> MS1ROUTE AAC1-010	100.00 0.00 EA	0 0 0	100.00 0.00 100.00
MS-1 STUD <b>-24.70</b>	04/25-12:15p 04/28-01:15a 04/16	<a href="#">Analysis</a> MS1ROUTE AAC1-020	8.00 10.00 EA	450 0 450	53.00 0.00 53.00
XMILE STUD <b>-24.70</b>	04/28-04:15p 04/29-06:45p 04/16	<a href="#">Nightly Processing</a> MS1ROUTE AAC1-050	0.00 20.00 EA	450 0 450	22.50 0.00 22.50
PREP MS-1 <b>-14.70</b>	03/15-12:15p 03/22-08:15a 04/03	<a href="#">Lead In - 5 Days</a> MS1ROUTE AAH8-010	100.00 0.00 EA	1 0 1	100.00 0.00 100.00
MS-1	03/22-12:15p	<a href="#">Analysis</a>	8.00	1,448	152.80





# JobTime Sample Reports - Scheduling Medical Equipment

STUD <b>-14.70</b>	04/01-01:03a 04/03	MS1ROUTE AAH8-020	10.00 EA	0 1,448	0.00 152.80
XMILE	04/01-04:15p	Nightly Processing	0.00	1,448	72.40
STUD <b>-14.70</b>	04/07-04:39a 04/03	MS1ROUTE AAH8-050	20.00 EA	0 1,448	0.00 72.40
PREP MS-2 <b>-28.70</b>	03/15-04:15p 03/22-08:15a 04/21	Lead In - 5 Days MS2ROUTE ABA1-010	80.00 0.00 EA	1 0 1	80.00 0.00 80.00
MS-2 STUD <b>-28.70</b>	03/22-04:15p 04/20-12:15a 04/21	Analysis MS2ROUTE ABA1-020	8.00 15.00 EA	4,800 0 4,800	328.00 0.00 328.00
XMILE STUD <b>-28.70</b>	04/20-04:15p 05/11-08:15a 04/21	Nightly Processing MS2ROUTE ABA1-050	0.00 20.00 EA	4,800 0 4,800	240.00 0.00 240.00
PREP MS-2 <b>-31.70</b>	03/15-04:15p 03/22-08:15a 04/08	Lead In - 5 Days MS2ROUTE AAC4-010	80.00 0.00 EA	1 0 1	80.00 0.00 80.00
MS-2 STUD <b>-31.70</b>	03/22-04:15p 04/13-12:15a 04/08	Analysis MS2ROUTE AAC4-020	8.00 15.00 EA	3,600 0 3,600	248.00 0.00 248.00
XMILE STUD <b>-31.70</b>	04/13-04:15p 04/28-08:15p 04/08	Nightly Processing MS2ROUTE AAC4-050	0.00 20.00 EA	3,600 0 3,600	180.00 0.00 180.00
PREP MS-2 <b>-29.30</b>	04/08-04:15p 04/15-08:15a 04/11	Lead In - 5 Days MS2ROUTE AAD2-010	80.00 0.00 EA	1 0 1	80.00 0.00 80.00
MS-2 STUD <b>-29.30</b>	04/15-04:15p 04/22-09:57p 04/11	Analysis MS2ROUTE AAD2-020	8.00 15.00 EA	1,166 0 1,166	85.70 0.00 85.70

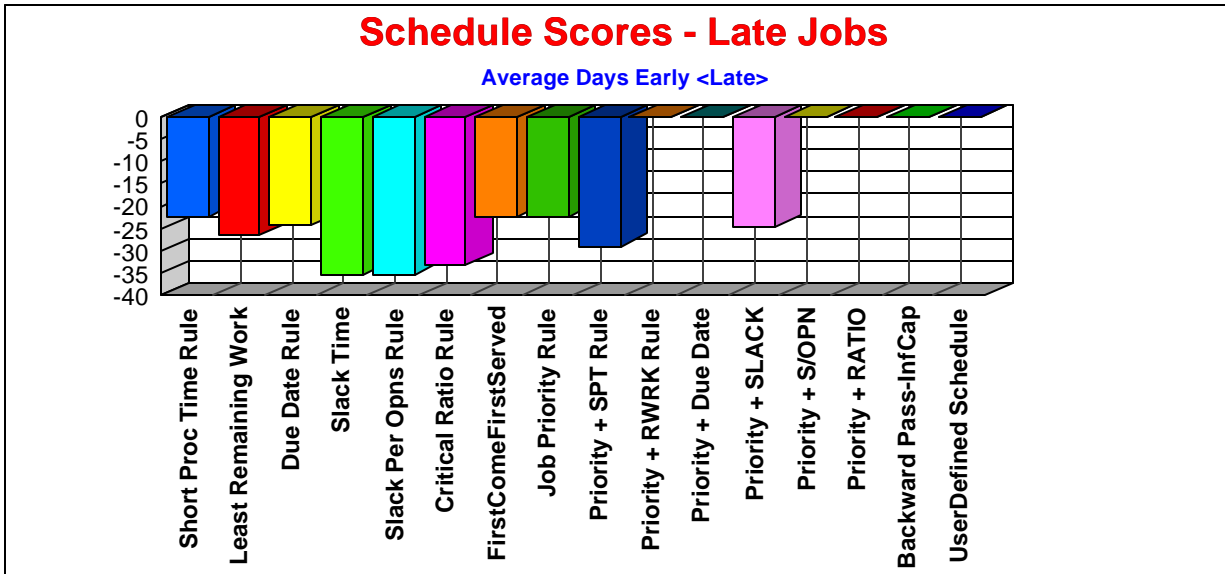


# JobTime Sample Reports - Scheduling Medical Equipment

XMILE	04/25-04:15p	Nightly Processing	0.00	1,166	58.30
STUD	04/29-02:33a	MS2ROUTE	20.00	0	0.00
<b>-29.30</b>	04/11	AAD2-050	EA	1,166	58.30

## Customer Order List

Work Order Number	Description	Client Number	Qty Units	Due Date	Days Early <Late>	Percent Complete	Estimated Start Date	Estimated Finish Date
<b>Customer Number 1</b>		<b>CUS1</b>						
AAC1	FLUTAMIDE 20 Samples/Hour		450	04/16	<b>-24.70</b>	0	04/18	05/11
AAC4	GAMMA		3,600	04/08	<b>-31.70</b>	0	03/15	05/10
AAD2	EPSILON		1,166	04/11	<b>-29.30</b>	0	04/08	05/11
AAG2	ALPHA		2,224	04/06	<b>-19.70</b>	0	03/15	04/26
AAH8	OMEGA		1,448	04/03	<b>-14.70</b>	0	03/15	04/18
ABA1	BETA		4,800	04/21	<b>-28.70</b>	0	03/15	05/20

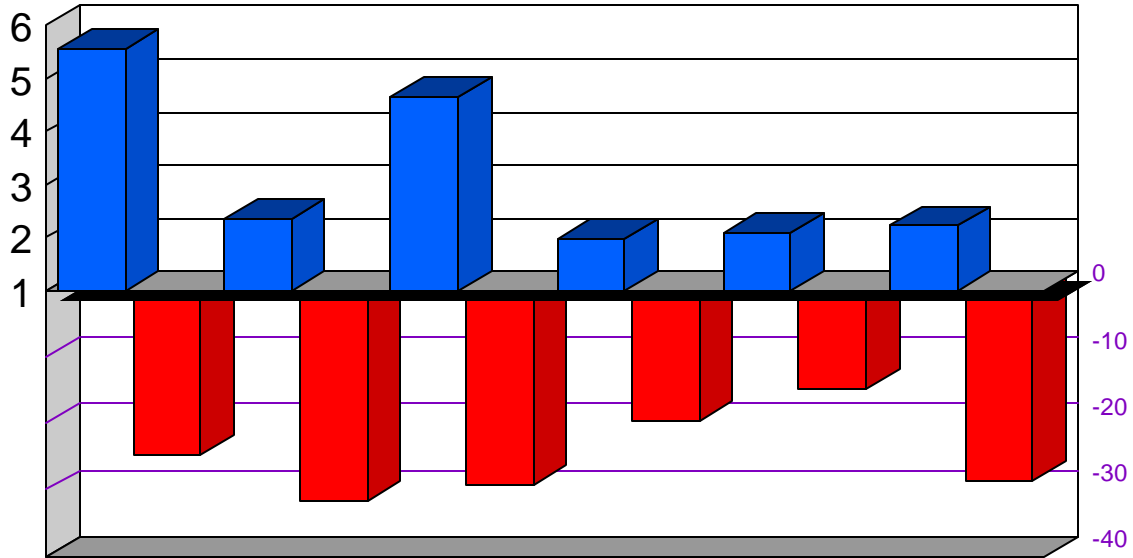


Sched Rule	Description	Sched Gen	Make Span	Late Jobs	Avg Early (days)	Max Late (days)	Cap Util (%)	Percent onTime (%)
1	Short Proc Time Rule	3	90	5	-22.20	24	15.00	33.30
2	Least Remaining Work	3	90	5	-26.40	27	15.00	33.30
3	Due Date Rule	3	92	6	-24.40	24	14.70	16.70
4	Slack Time	3	89	6	-35.20	35	15.20	33.30
5	Slack Per Opns Rule	3	89	6	-35.20	35	15.20	33.30
6	Critical Ratio Rule	3	89	6	-33.20	33	15.20	33.30
7	FirstComeFirstServed	3	90	5	-22.20	24	15.00	33.30
8	Job Priority Rule	3	90	5	-22.20	24	15.00	33.30
9	Priority + SPT Rule	2	76	6	-28.90	29	17.80	16.70
A	Priority + RWRK Rule	0	0	0	0.00	0	0.00	0.00
B	Priority + Due Date	0	0	0	0.00	0	0.00	0.00
C	Priority + SLACK	4	2,039	6	-24.80	25	0.60	0.00
D	Priority + S/OPN	0	0	0	0.00	0	0.00	0.00
E	Priority + RATIO	0	0	0	0.00	0	0.00	0.00
F	Backward Pass-InfCap	0	0	0	0.00	0	0.00	0.00
U	UserDefined Schedule	0	0	0	0.00	0	0.00	0.00

### Days Early /Late by Order

QRatio = Cycle Time / WorkContent

Days Early / Late



Work Order No	Days of Cycle Time	Days of Work Content	Q-Ratio	Days Early (Late)
AAC1	57.33	10.31	5.56	-24.70
AAC4	56.67	24.16	2.35	-31.70
AAD2	57.33	12.33	4.65	-29.30
AAG2	42.67	21.40	1.99	-19.70
AAH8	34.67	16.55	2.10	-14.70
ABA1	66.67	30.00	2.22	-28.70

## Capacity Requirements Report

WC NO	Capacity Demand H													
	Work Center Name	ST	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
MS-1	LCMS New	A			80	100	100	86	75	100	76			
MS-1	LCMS New	B			80	100	89	56						
MS-2	LCMS Old	A			64	80	80	80	80	72	80	80	32	
MS-2	LCMS Old	B			64	80	80	80	72	80	52			
MS-2	LCMS Old	C						16	80	70	58			
PREP	Preparation Teams	A			32	40	40	40	40	40	40	40	36	
PREP	Preparation Teams	B			32	40	40	40	40	40	40	1		
PREP	Preparation Teams	C			32	40	40	40	35	40	36			
PREP	Preparation Teams	D			32	40	40	35	40	40	33			
QA	QA Inspector	A											16	24
QA	QA Inspector	B										32	8	
QA	QA Inspector	C								32	8	32	8	
QA	QA Inspector	D					8	32				32	8	
STUD	Study Director	A								8			8	16
STUD	Study Director	B							8		8	8	8	
STUD	Study Director	C						8	8	8	16	8	16	
STUD	Study Director	D					8	8	8	8	16	8	8	

WC NO	Pct Utilization													
	Work Center Name	ST	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
MS-1	LCMS New	A		0	80	100	100	86	75	100	76	0	0	0
MS-1	LCMS New	B		0	80	100	89	56	0	0	0	0	0	0
MS-2	LCMS Old	A		0	80	100	100	100	100	90	100	100	40	0
MS-2	LCMS Old	B		0	80	100	100	100	90	100	65	0	0	0
MS-2	LCMS Old	C		0	0	0	0	20	100	88	73	0	0	0
PREP	Preparation Teams	A		0	80	100	100	100	100	100	100	100	90	0
PREP	Preparation Teams	B		0	80	100	100	100	100	100	100	3	0	0
PREP	Preparation Teams	C		0	80	100	100	100	88	100	90	0	0	0
PREP	Preparation Teams	D		0	80	100	100	88	100	100	83	0	0	0
QA	QA Inspector	A		0	0	0	0	0	0	0	0	0	40	60
QA	QA Inspector	B		0	0	0	0	0	0	0	0	80	20	0
QA	QA Inspector	C		0	0	0	0	0	0	80	20	80	20	0
QA	QA Inspector	D		0	0	0	0	20	80	0	0	80	20	0
STUD	Study Director	A		0	0	0	0	0	0	20	0	0	20	40
STUD	Study Director	B		0	0	0	0	0	20	0	20	20	20	0
STUD	Study Director	C		0	0	0	0	20	20	20	40	20	40	0
STUD	Study Director	D		0	0	0	20	20	20	20	40	20	20	0



# JobTime Sample Reports - Scheduling Medical Equipment

WC NO	Unused Capacity Hr Work Center Name	ST	03/05	03/06	03/13	03/20	03/27	04/03	04/10	04/17	04/24	05/01	05/08	05/15
MS-1	LCMS New	A		100	20			14	25		24	100	100	100
MS-1	LCMS New	B		100	20		11	44	100	100	100	100	100	100
MS-2	LCMS Old	A		80	16					8			48	80
MS-2	LCMS Old	B		80	16				8		28	80	80	80
MS-2	LCMS Old	C		80	80	80	80	64		10	22	80	80	80
PREP	Preparation Teams	A		40	8								4	40
PREP	Preparation Teams	B		40	8							39	40	40
PREP	Preparation Teams	C		40	8				5		4	40	40	40
PREP	Preparation Teams	D		40	8			5			7	40	40	40
QA	QA Inspector	A		40	40	40	40	40	40	40	40	40	24	160
QA	QA Inspector	B		40	40	40	40	40	40	40	40	8	32	40
QA	QA Inspector	C		40	40	40	40	40	40	8	32	8	32	40
QA	QA Inspector	D		40	40	40	40	32	8	40	40	8	32	40
STUD	Study Director	A		40	40	40	40	40	40	32	40	40	32	24
STUD	Study Director	B		40	40	40	40	40	32	40	32	32	32	40
STUD	Study Director	C		40	40	40	40	32	32	32	24	32	24	40
STUD	Study Director	D		40	40	40	32	32	32	32	24	32	32	40

## Work Order Gantt Chart

Work Order	Description	Qty Units	Due Date	Days Early <Late>	Percent Complete	Est Start Date	Est Finish Date
<b>AAC1</b>	<b>FLUTAMIDE</b>						
001	STUD Constraint SZ Study Director Resource	EA 1.000	450	0.0000	1.00	816.0	04/18/2009-08:15a 05/02/2009-04:15p
002	MS1-Constraint SZ MS1 Constraint	EA 1.000	450	0.0000	1.00	0.0	04/18/2009-08:15a 05/02/2009-04:15p
003	QA Constraint SZ QA Constraint	EA 1.000	450	0.0000	1.00	0.0	04/18/2009-08:15a 05/02/2009-04:15p
004	Preparation Teams Preparation Team	EA 1.000	450	0.0000	76.10	0.0	04/18/2009-08:15a 05/02/2009-04:15p
010	LCMS New Lead In - 5 Days	EA 0.000	0	0.0000	100.00	4.0	04/18/2009-12:15p 04/23/2009-08:15a
020	LCMS New Analysis	EA 1.000	450	0.0000	53.00	52.0	04/25/2009-12:15p 04/28/2009-01:15a
030	Study Director DataReview	EA 1.000	450	0.0000	7.90	7.0	04/28/2009-08:15a 04/28/2009-04:09p
040	Milestones Client Review Milestone 1	EA 1.000	450	0.0000	0.10	0.0	04/28/2009-04:09p 04/28/2009-04:15p
050	LCMS New Nightly Processing	EA 1.000	450	0.0000	22.50	0.0	04/28/2009-04:15p 04/29/2009-06:45p
060	Study Director Final Review	EA 1.000	450	0.0000	8.00	61.5	05/02/2009-08:15a 05/02/2009-04:15p
070	QA Inspector QA Inspector	EA 1.000	450	0.0000	32.00	16.0	05/03/2009-08:15a 05/06/2009-04:15p
080	Study Director Corrections	EA 1.000	450	0.0000	7.80	64.0	05/09/2009-08:15a 05/09/2009-04:03p
090	Milestones Data to Client Milestone 2	EA 1.000	450	0.0000	0.10	0.0	05/09/2009-04:03p 05/09/2009-04:09p
100	Milestones Report to QA Milestone 3	EA 1.000	450	0.0000	0.10	0.0	05/09/2009-04:09p 05/09/2009-04:15p
110	QA Inspector Final QA	EA 1.000	450	0.0000	8.00	16.0	05/10/2009-08:15a 05/10/2009-04:15p
120	Study Director Final Corrections	EA 1.000	450	0.0000	7.80	16.0	05/11/2009-08:15a 05/11/2009-04:03p
130	Milestones Report to Client Milestone 4	EA 1.000	450	0.0000	0.10	0.0	05/11/2009-04:03p 05/11/2009-04:09p

### Gantt Chart of Operations

Duration Expressed in Days

