A spiral-bound notebook with a light beige, textured cover. The spiral binding is on the left side. The text is centered on the cover.

Enterprise Solutions

Range of Company-Wide
Management Tools



Enterprise Solutions

Belmah Strategies

1. Quality Yield Productivity (Multi Line)
2. Quality Yield Productivity (Single Line)
3. Training Needs Analysis
4. Staff Performance Eval
5. Statistical Process Control
6. Total Productivity Maintenance
8. Audit Management
9. Document Control
10. ISO Implementation Toolkit
11. Attendance Monitoring
12. Inventory Monitoring for Stock In
13. Inventory Monitoring for Finished Goods
14. Utilities for Events, Communication and Rooms



Quality Yield Productivity (QYP ML)





Quality, Yield and Productivity

Quality Yield Productivity

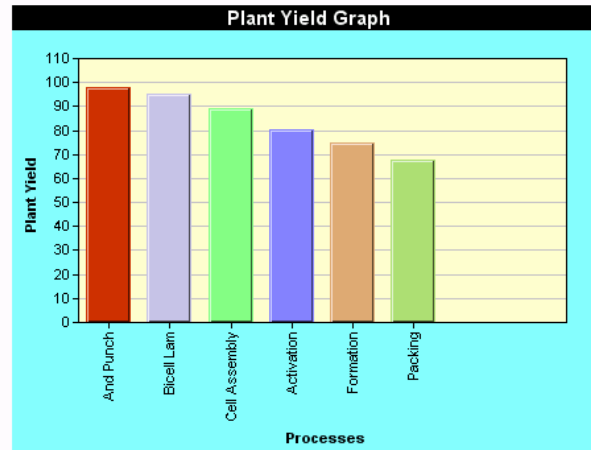
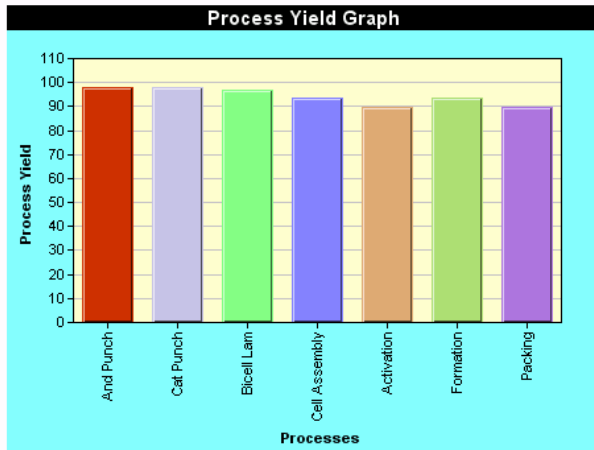
Select By Date

From:

To:

Plant Yield

	And Punch	Cat Punch	Bicell Lam	Cell Assembly	Activation	Formation	Packing
Input	23400	23400	22792	22080	20660	19030	17794
Output	22961	22909	22117	20667	18562	17814	16001
Rejects	439	491	675	1413	2098	1216	1793
Excess							
Hijacked	31	74	38	7	90	43	
Process Yield	98.12 %	97.90 %	97.04 %	93.60 %	89.85 %	93.61 %	89.92 %
Rank				3	1		2
Plant Yield	98.12%		95.22%	89.12%	80.07%	74.96%	67.40%



QYP

- Build the process
- Enter process data
- View variously
 - By Date
 - By Batch
 - By Area
 - By Process
 - Etc.



Quality Yield Productivity (QYP SL)

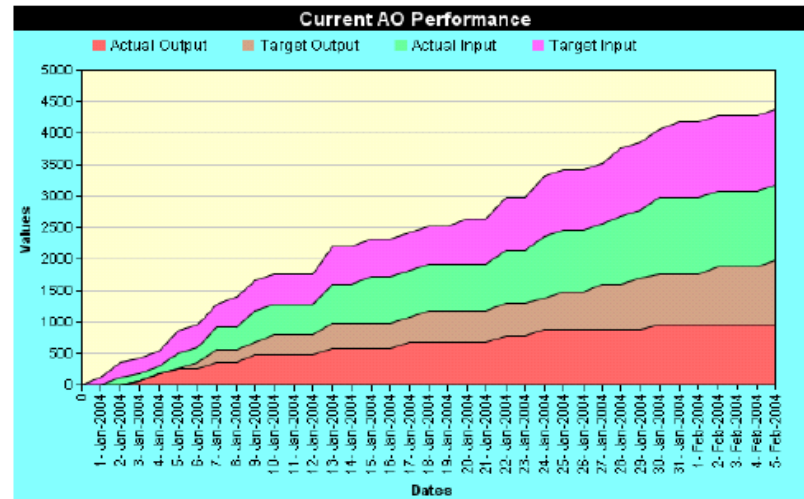
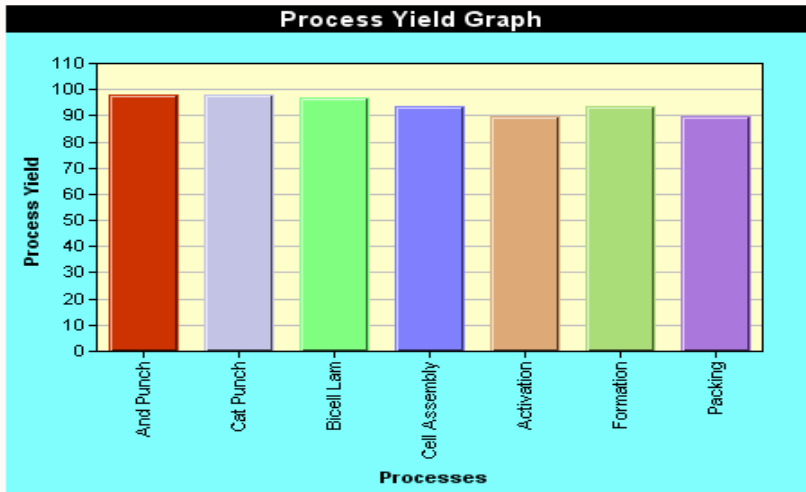


Plant Yield

	And Punch	Cat Punch	Bicell Lam	Cell Assembly	Activation	Formation	Packing
Input	23400	23400	22792	22080	20660	19030	17794
Output	22961	22909	22117	20667	18562	17814	16001
Rejects	439	491	675	1413	2098	1216	1793
Excess							
Hijacked	31	74	38	7	90	43	
Process Yield	98.12 %	97.90 %	97.04 %	93.60 %	89.85 %	93.61 %	89.92 %
Rank				3	1		2
Plant Yield	98.12%		95.22%	89.12%	80.07%	74.96%	67.40%

Needed by all companies
(unless they have some type of ERP)

Daily tracking
Monthly tracking
Yearly tracking



Low Process Yield?
Chain to Projects Section
to improve the process

Provides information needed for
continuous improvement to face
changing customer needs



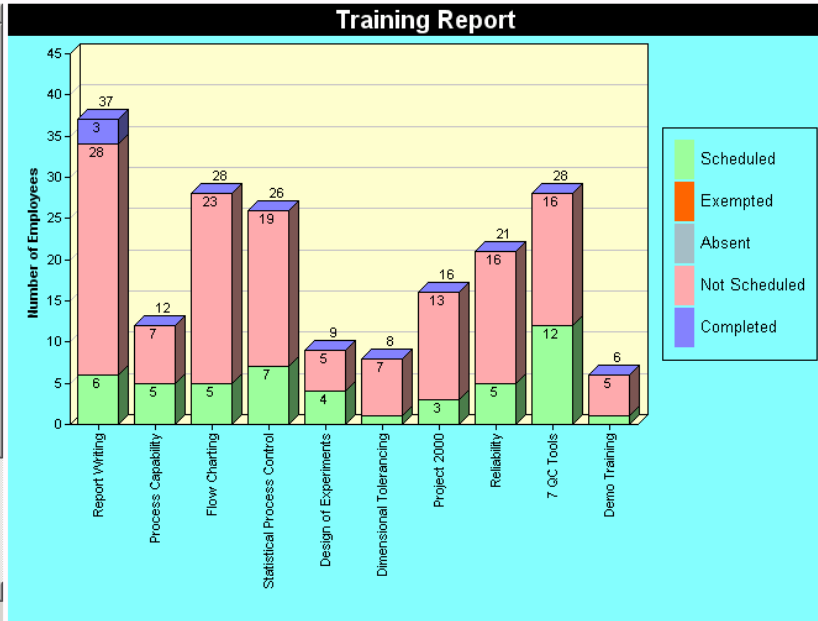
Training Needs Analysis

Training by Topics

<< < Report Writing > >>

Number Percent

No	Employee No	Employee Name	Status
1	Emp0026	Shairy	Completed
2	Emp0033	Rozita	Completed
3	Emp0025	Azman333	Completed
4	Emp0014	Shamel	Scheduled
5	Emp0004	Ramam	Scheduled
6	Emp0015	Marliza	Scheduled
7	Emp0001	Balan	Scheduled
8	Emp0023	Shazlee	Scheduled
9	Emp0038	Hari	Scheduled
10	Emp0007	Fauziah	Not Scheduled
11	Emp0022	kamal	Not Scheduled
12	Emp0003	P	Not Scheduled
13	Emp0029	Mahallil	Not Scheduled
14	Emp0030	Zakuan	Not Scheduled
15	Emp0008	Halmiy	Not Scheduled
16	Emp0037	Senthil	Not Scheduled
17	Emp0036	Saleh Drus	Not Scheduled
18	Emp0034	Chan	Not Scheduled
19	Emp0035	Zaitul	Not Scheduled
20	Emp0027	Halim	Not Scheduled
21	Emp0028	Fariq	Not Scheduled
22	Emp0021	Paagal	Not Scheduled
23	Emp0002	vinod	Not Scheduled
24	Emp0018	Ho	Not Scheduled
25	Emp0039	Ravi Kumar	Not Scheduled
26	Emp0017	Shaari	Not Scheduled
27	Emp0032	Rohana	Not Scheduled
28	Emp0011	Thulasi	Not Scheduled
29	Emp0009	Skidara	Not Scheduled



TNA

- Training Planner
- Training summary
 - By Department
 - By Topic
 - By Employee
 - Etc.



Training Needs Analysis



Personal Training Year Planner

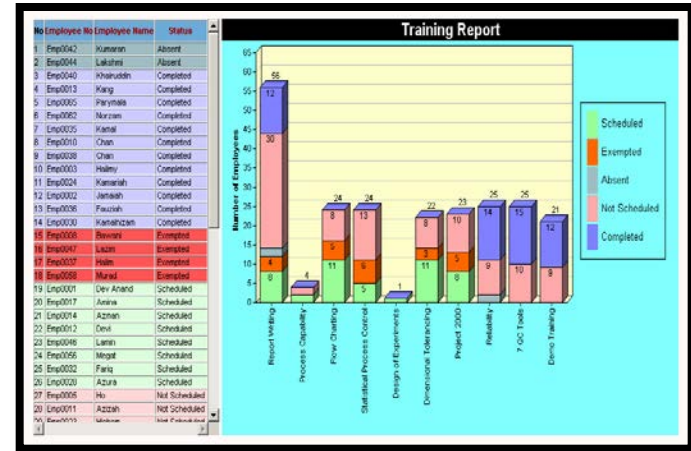
Expand All Collapse All

Personnel Training Year Planner

Legend: Training Needed Training Not Needed

Position	Job Code	Employee No	Employee Name	Report Writing	Process Capability	Flow Charting	Statistical Process Control	Design of Experiments	Dimensional Tolerancing	Project 2000	Reliability	7 QC Tools	Demo Training
Chief Executive Officer	1	Emp0010	Hamid										
Chief Tech Officer	2	Emp0002	vinod										
Basic Research	11	Emp0007	Fauziah										
Advanced Development	12	Emp0011	Thulasi										
Marketing	3	Emp0003	P										
Marketing Manager 1	13	Emp0017	Hameed										
Marketing Manager 2	14	Emp0018	Ho										
Operations	4	Emp0005	Shazrul										
Prod Plan Control	5	Emp0001	Balan										
Production	6	Emp0030	Zakuan										
Product Quality Ass	7	Emp0006	Kang										
Safety Security Health	8	Emp0009	Shirlene										
Human Resource	1												

Training Report



Training Schedule

Show: Yearly

December 2004

No	Training Name	Group No	Status	No. of Delegate	Date	Start Date	End Date	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	Report Writing	Group1	Status	8	05/Oct/2004	20/Dec/2004																						
2	Report Writing	Group2	Status	6	04/Nov/2004	05/Nov/2004																						
3	Report Writing	Group3	Status	12	22/Dec/2004	24/Dec/2004																						
4	Process Capability	Group1	Status	2	01/Dec/2004	02/Dec/2004																						
5	Flow Charting	Group1	Status	4	22/Dec/2004	23/Dec/2004																						
6	Flow Charting	Group2	Status	12	12/Jan/2005	13/Jan/2005																						
7	Statistical Process Control	Group1	Status	11	10/Dec/2004	10/Dec/2004																						
8	Design of Experiments	Group1	Status	0	21/Dec/2004	21/Dec/2004																						
9	Design of Experiments	Group2	Status	1	22/Dec/2004	22/Dec/2004																						
10	Dimensional Tolerancing	Group1	Status	14	08/Dec/2004	13/Dec/2004																						
11	Project 2000	Group1	Status	13	08/Dec/2004	10/Dec/2004																						
12	Reliability	Group1	Status	16	31/Oct/2004	31/Oct/2004																						
13	7 QC Tools	Group1	Status	15	20/Oct/2004	20/Oct/2004																						
14	Demo Training	Group1	Status	12	25/Oct/2004	25/Oct/2004																						

Training Planner

Expand All Collapse All

From Date: 1/1/2004 To Date: 31/12/2005 Submit

Category	Trainer	Jan 2004	Feb 2004	Mar 2004	Apr 2004	May 2004	Jun 2004	Jul 2004	Aug 2004	Sep 2004	Oct 2004	Nov 2004	Dec 2004	Jan 2005	Feb 2005	Mar 2005	Apr 2005	May 2005	Jun 2005	Jul 2005	Aug 2005	Sep 2005	Oct 2005	Nov 2005	Dec 2005		
Quality Yield Productivity	Dr. Nic																										
Statistical Method Analysis	Dr. Nic																										
SPC	B. Siew amuda																										
Total Productive Maintenance	B. Siew amuda																										
Internal Audit Application software	B. Siew amuda																										
ISO	Dr. Nic																										
Advanced Statistical Techniques	B. Siew amuda																										
Measurement System Analysis	B. Siew amuda																										
Voice of Customer	Dr. Nic																										
Quality Function Deployment	B. Siew amuda																										
Failure Mode & Effect Analysis	B. Siew amuda																										
Control Plan	B. Siew amuda																										
Systemic Control Plan	Dr. Nic																										
Problem Solving Techniques	B. Siew amuda																										
Process Flow chart & Allied Tools	B. Siew amuda																										
ISO 9001:2000 Awareness	B. Siew amuda																										
ISO 9001:2000 Documentation and Implementation	B. Siew amuda																										
ISO 14001 Environmental System Internal Audit	B. Siew amuda																										
Awareness on OHSAS 18001	B. Siew amuda																										
OHSAS 18001:1999 Documentation and Implementation	B. Siew amuda																										
ISO 18001 Health and Safety Management System int	B. Siew amuda																										
Awareness on TS 16949:2002	B. Siew amuda																										
TS 16949:2002 Documentation and Implementation	B. Siew amuda																										
Internal Auditing to TS 16949:2002	B. Siew amuda																										
Awareness on Integrated Management Systems	B. Siew amuda																										
Total Productive Maintenance	B. Siew amuda																										



Staff Performance Evaluation



Employee Review

Employee Department

Close Save Submit

Employee Name	IR0003 -- Miss. Azizah Mamat
Date Of Joining	01-Apr-2004
Date Of Leaving	
Template Name	Temp001 -- Template 1
Template Created Date	05-Dec-2005

Review Date	10/12/2005
Review Period	From 04/26/2005 To 09/22/2005
Review By	IR0013 -- Mr. Chee Kang
Conclusion	Not completed yet because of the Raya holidays.
Review Status	Not Completed

Template

Monitor Employee Reviews

Follow-up on trends in on or all employees

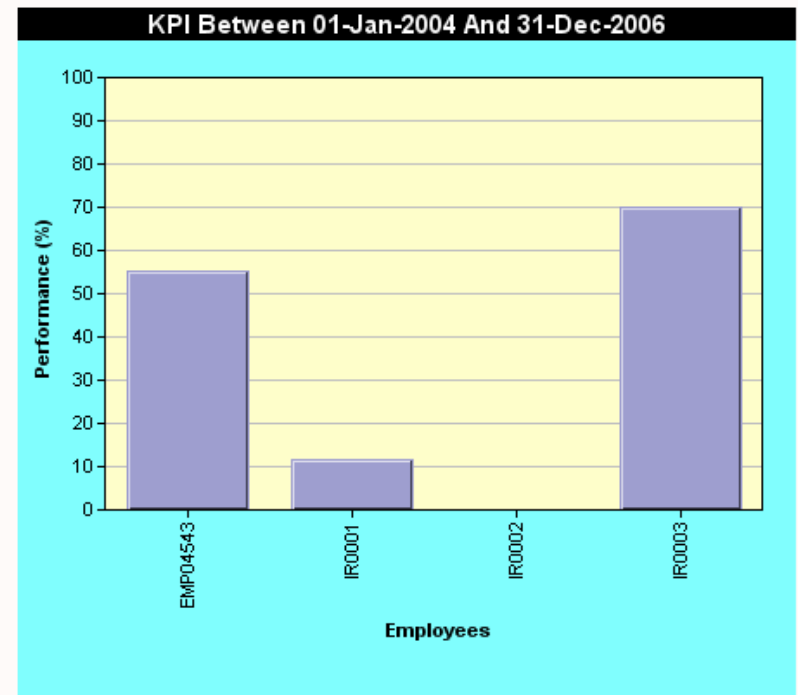
Create different templates for different skill levels

Cumulative Employee KPI

From 01/01/2004 To 12/31/2006 View Choose Employees List

No.	Employee ID.	Employee	Total KPI
1	EMP04543	Mr. Thirumalai Kuppusamy	55.2 %
2	IR0001	Mr. Amina Hameed	11.5 %
3	IR0002	Mr. Ang Koon Long	
4	IR0003	Miss. Azizah Mamat	69.9 %

Display By Employee Id Employee Name



TOP



Schedule to SPC Chart

Belmah Strategies

SPC Chart Schedule

Process
 Facilities
 Office
 Gage

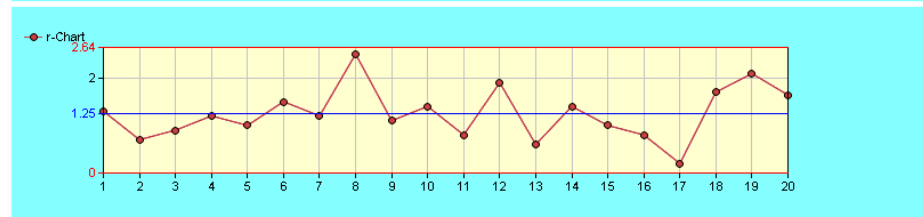
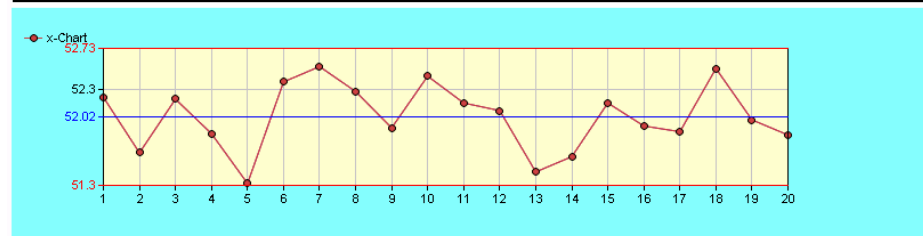
Process Name	Mach No.	Mac Capability	PreControl	X-Bar-Sigma	X-Bar-Range	X-Ind-R-Move	X-Move-R-Move	Median-Chart	d-Chart	p-Chart	e-Chart	u-Chart
CCT												
Solution Mix	MIX-SYS-1											
Mixing System 1	MIX-SYS-1											
Mixing System 2	MIX-SYS-2											
Mixing System 3	MIX-SYS-3											
Mixing System 4	MIX-SYS-4											
Strip Cutting												
Grid Cutting System 1	GRID-CUT-SYS-1											
Grid Cutting System 2	GRID-CUT-SYS-2											
Grid Cutting System 3	GRID-CUT-SYS-2											
Grid Cutting System 4	GRID-CUT-SYS-4											
Spraying	SPR-SYS-1											
Treatment Process												
Strips Drying												
Grid Annealing												
Offline	BIC-LAM											
Cell Assembly	CAS-SEAL											
Lamination												
Punching	PACK-PRE-MC-1											
Tab Welding												
Activation	ANNE-OVEN											
FDP												
Un Used Machines List												



Name of the Study	Molding Process	X Bar Chart	R Chart	Spec Spread	2	Process Capability	
Name of the Machine	Atkinson	Specification	52.00	USL	53	UCL (X)	52.73
Type of Data Collected	Cavity dimension	Upper Limit (+)	1.00	LSL	51	UCL (R)	2.64
Unit of Measurement	mm	Lower Limit (-)	1.00	Tolerance	2	CL (X)	52.02
				LCL (X)	51.3	CL (R)	1.25
						Process Spread	3.215
						Half Process Spread	1.608
						Process Capability	cp 0.622
						Process Capability Index	cpk 0.612

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Year	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2004
Date	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/04
Hours	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	12:58
Shift																			
Employee Name																			S1
Sample 1	52.00	51.70	51.70	51.30	50.80	52.60	53.00	52.50	51.90	52.20	52.40	51.30	51.70	51.80	52.00	52.00	51.80	51.56	51.56
Sample 2	52.10	51.50	52.20	52.20	50.90	51.40	52.90	52.70	51.60	52.70	52.60	51.20	51.60	51.00	51.70	52.30	51.80	52.60	52.60
Sample 3	53.00	52.00	51.90	51.80	51.70	52.90	52.50	51.20	51.60	52.30	52.10	51.90	51.40	52.40	52.60	51.80	51.80	53.02	52.98
Sample 4	52.30	51.70	52.60	52.50	51.80	52.60	52.50	53.70	52.70	51.80	51.80	53.10	51.40	51.20	51.80	52.00	51.90	52.16	51.89
Sample 5	51.70	51.30	52.60	51.40	51.40	52.40	51.80	51.30	51.70	53.20	51.90	52.90	51.10	51.60	52.70	51.50	52.00	53.26	50.89
SubGroup Average	52.22	51.64	52.20	51.84	51.32	52.38	52.54	52.28	51.90	52.44	52.16	52.08	51.44	51.60	52.16	51.92	51.86	52.52	51.98
SubGroup Range	01.30	00.70	00.90	01.20	01.00	01.50	01.20	02.50	01.10	01.40	00.80	01.90	00.60	01.40	01.00	00.80	00.20	01.70	02.09

X bar R Chart



Number	Remark
Add	

SPC

- Track every machine
- All conventional charts
- More being added
- No calculation needed



Statistical Process Control

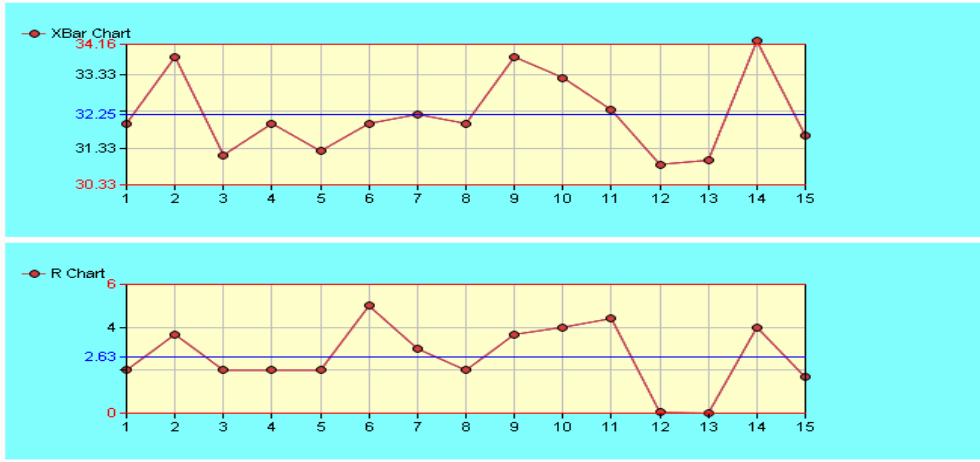


Name of the Study	Molding Process				XBar Chart		R Chart		Spec Spread 68	Process Capability			
Name of the Machine	Atkinson Molding Machine	Specification	34.00	USL	71	UCL (X)	34.16	UCL (R)	6	s =	1.277	cp	8.873
Type of Data Collected	Cavity dimension	Upper Limit (+)	37.00	LSL	3	CL (X)	32.25	CL (R)	2.63	Process Spread	7.664	Process Capability Index	
Unit of Measurement	Millimeter	Lower Limit (-)	31.00	Tolerance	68	LCL (X)	30.33	LCL (R)	0	Half Process Spread	3.832	cpk 7.632	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Year	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2004
Date	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/11	10/21
Hours	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	11:41	02:33
Shift															1
Employee Name															Vinod
Sample 1	31.00	34.56	30.00	31.00	32.00	30.00	31.00	31.00	34.56	32.00	35.00	30.89	31.00	32.00	31.89
Sample 2	32.00	35.56	31.00	33.00	31.00	35.00	34.00	32.00	35.56	35.00	32.00	30.88	31.00	35.00	30.89
Sample 3	33.00	33.25	32.00	32.00	30.00	31.00	33.00	33.00	33.25	31.00	31.89	30.87	31.00	36.00	32.56
Sample 4	32.00	31.89	31.56	32.00	32.00	32.00	31.00	32.00	31.89	35.00	30.59	30.90	31.00	34.00	31.33
SubGroup Average	32.00	33.81	31.14	32.00	31.25	32.00	32.25	32.00	33.81	33.25	32.37	30.89	31.00	34.25	31.67
SubGroup Range	02.00	03.67	02.00	02.00	02.00	05.00	03.00	02.00	03.67	04.00	04.41	00.03	00.00	04.00	01.67

Monitor Variations in the process

XBar R Chart



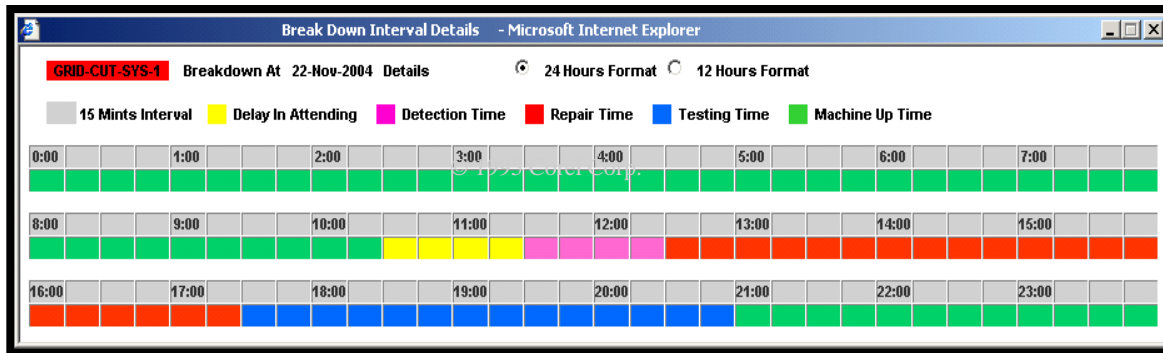
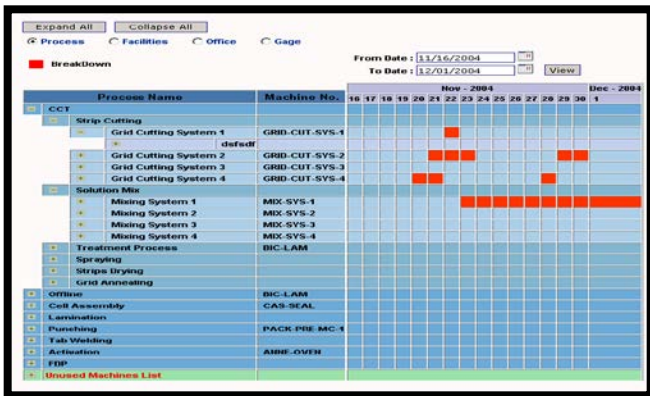
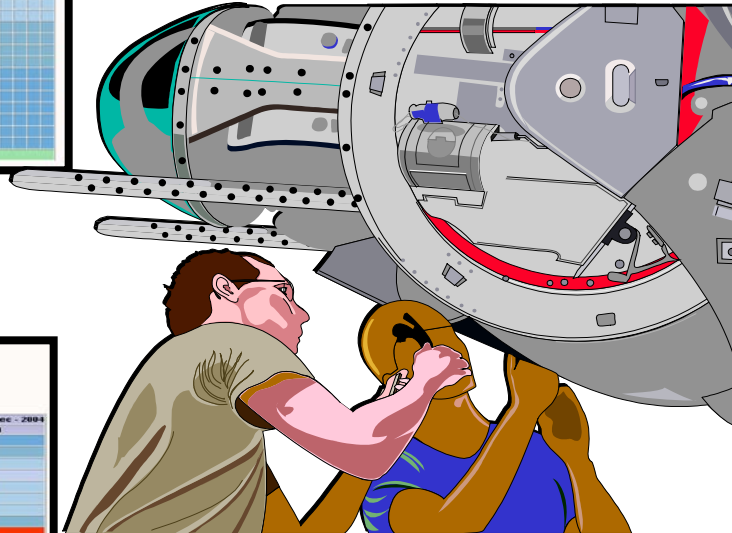
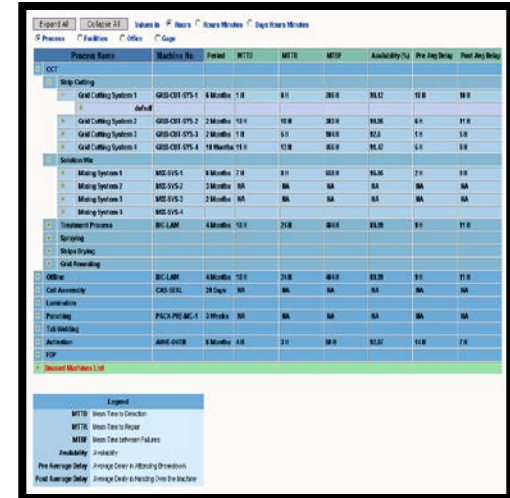
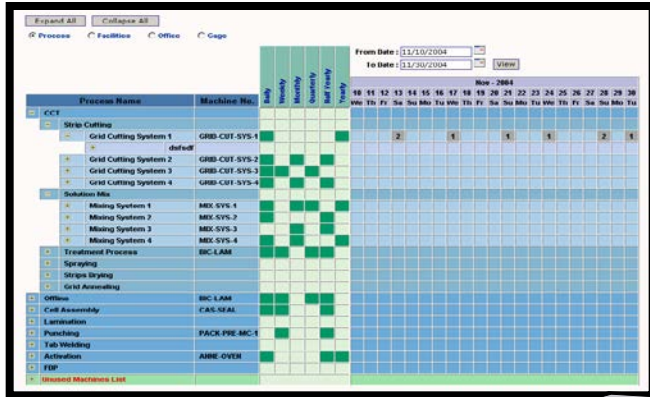
Even minor variations are detected for immediate analysis



Total Productive Maintenance



Belmah Strategies





Audits



Audit Status as on Date 20/Nov/04

Audit No.	Department	Section	Date			Non Conformance					NC Status	Notes
			Planned	Conducted	Delay	Major Qty	NC Nos.	Minor Qty	NC Nos.	Total		
1	Marketing Department	Marketing	12-Aug-04	15-Sep-04	34	1	View			1	1 Open	
3	Production	Production	20-Aug-04	23-Aug-04	3	1	View			1	1 Open	Production Dept
4	Design Department	Design	23-Aug-04	25-Aug-04	2			1	View	1	1 Open	Design Dept
5	Quality Department	Quality	26-Aug-04	27-Aug-04	1			1	View	1	1 Close	Quality Dept

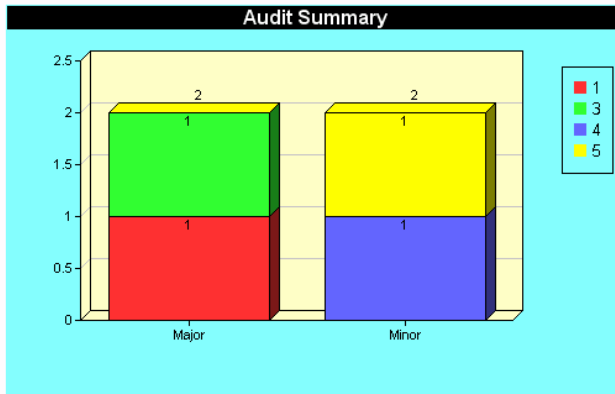
Audit Summary

Start_Date:

End_Date:

Department:

Audit No.	Department	Section	Non Conformance		
			Major Qty	Minor Qty	Total
1	Marketing Department	Marketing	1		1
3	Production	Production	1		1
4	Design Department	Design		1	1
5	Quality Department	Quality		1	1



• ISO/TS 16949

- Automotive Standard
- Auditor Performance
- Generate Reports by
 - Department
 - Auditor
 - Audit No.
- Track
 - Corrective actions
 - Preventive actions
 - Improvement actions
- Non Conformances
 - Major
 - Minor



ISO 9000/TS 16949



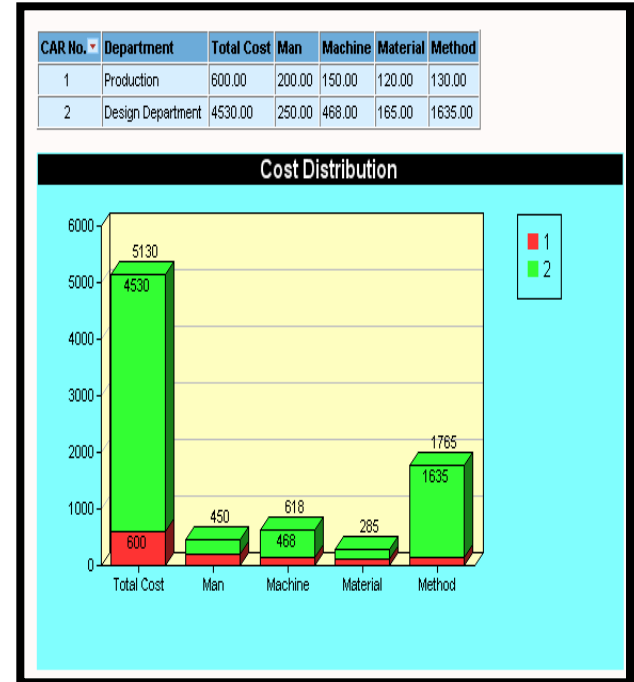
New Open

From Date: 08/01/2004
To Date: 12/01/2004 View

Edit

		Aug - 2004																	
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu
Audit No.	No. Days																		
1	Marketing Department	12-Aug-2004	16-Aug-2004																
1/1	Marketing	12-Aug-2004	16-Aug-2004	5															
2	Production	20-Aug-2004	22-Aug-2004																
2/1/3	Production	20-Aug-2004	22-Aug-2004	3															
3	Design Department	23-Aug-2004	25-Aug-2004																
3/1/4	Design	23-Aug-2004	25-Aug-2004	3															
4	Quality Department	26-Aug-2004	30-Aug-2004																
4/1/5	Quality	26-Aug-2004	30-Aug-2004	5															

- Audit Name
- Audit Plan
- Element Matrix
- Auditor List
- Audit Schedule
- Check List
- Audit Status
- Audit Improvement
- Audit Effectiveness
- Corrective Action Status
- Corrective Action
- Summary
- Cost Distribution
- Audit Summary
- Auditor Report
- Audit No. Report
- Department Report



Audit No.	Department	Section	Date			Non Conformance					NC Status	Notes	
			Planned	Conducted	Delay	Major Qty	NC Nos.	Minor Qty	NC Nos.	Total			
1	Marketing Department	Marketing	12-Aug-04	15-Sep-04	34								
3	Production	Production	20-Aug-04	23-Aug-04	3	1	View			1	NCR	Production Dept	
4	Design Department	Design	23-Aug-04	25-Aug-04	2			1	View	1	1 Open	Design Dept	
5	Quality Department	Quality	26-Aug-04	Not Conducted									

CAR

**Link to Project Section!
Conduct Improvement**



Document Control



Menu Link	Create	Draft Status	Verified Status	Approved Status	Circulation	Distribution
Create (or Modify)	Create Document or Modify Document					
Authenticate	Authenticate Document by Mgmt. Rep. ↓	Document in Draft Status				
Verify	Verify Document by Verify List ↓		Document in Verified Status			
Approve	Approve Document by Approve List ↓			Document in Approved Status		
Circulation	Circulate Document by Circulate List ↓				Document in Circulation	
Distribution	Distribute Document by Distribute List ↓					Document in Distribution

Menu Link	Purpose
Register	Upload existing Documents View all Document
Active Documents	View all Active Documents
Obsolete Documents	View all Obsolete Documents
Master Documents	View all Active or Obsolete Documents
Search	Search for a particular Document
Document History	View all activities associated with a Document
Document Members	View who is involved in which Document

Remember running round the organization before every audit?

Simplify your documents with Document Control

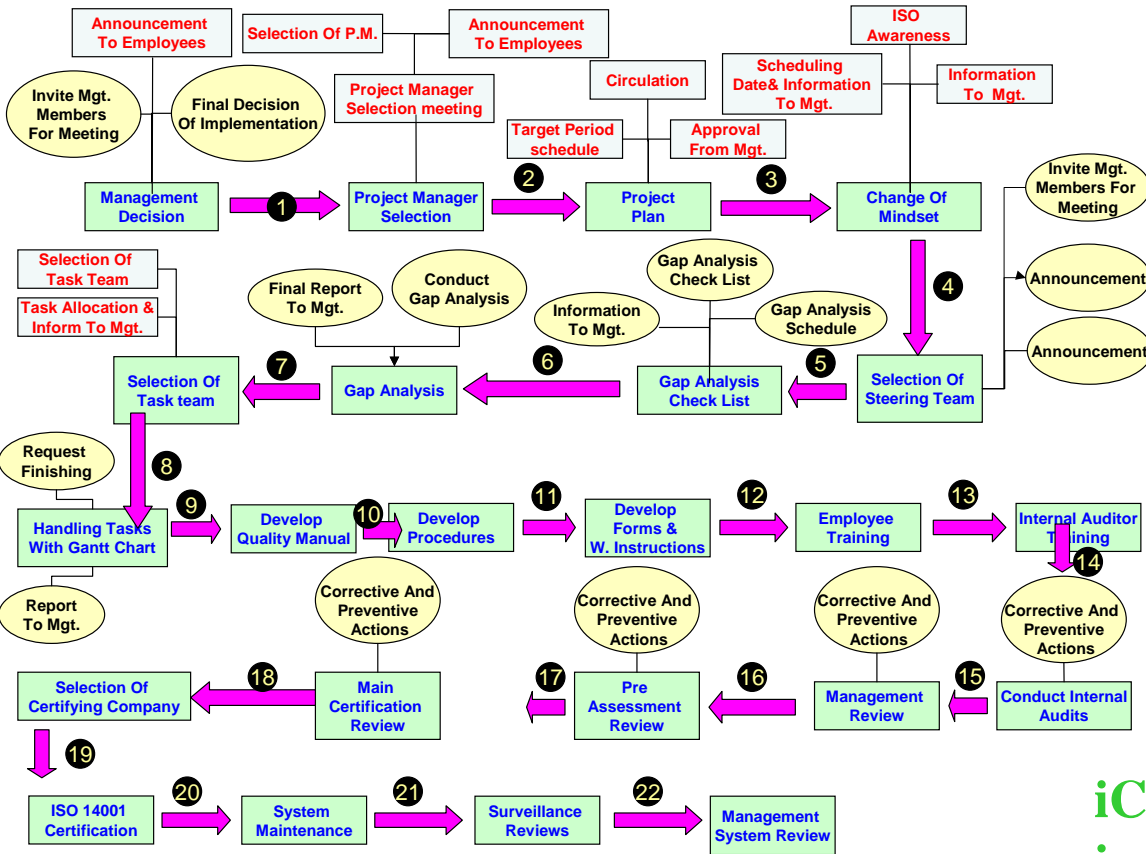


ISO Implementation Toolkit



Link to Project Section!
 Conduct Improvement
 Implement crucial tools:

- FMEA
- SPC
- MSA
- Etc.



iCT-M provides a toolkit for implementing ISO 9000

Step-by-Step

Templates available



Attendance



Attendance Details

Org. Tree Department Employee

Select OrgTree: Orgchart 7 (31-Mar-2006 --- 30-Mar-2007) Ats. All Del. All Working Hours Extra Working Hours

Select Date: << < 11/02/2006 > >> Working Day (Thursday 02-Nov-2006) Attendance

Position	Job Code	Employee Name	Working		Working Total Hrs.	Over Time Total Hrs.	Replacement Total Hrs.
			ATS	Shift			
Chief Executive Officer	8	IR0081 Megat Baharudin					
Chief Tech Officer	7	IR0042 Shankaran Sugandhan	P	L	8:06	1:00	1:00
Basic Research	17	IR0008 Badrulhisham Fauzi	P		9:36		
Research 1	5	IR0011 khk khk	P		9:36		
Research 2	16	IR0007 Azura Fariq	P		9:36		
Test Technician	8	IR00110 Shahulk Tamin	P		9:36		
Marketing	14	IR0027 Haimy Mahdi	P		9:36		
Markt. Manager 1	14	IR00124 William Taylor					
Markt. Manager 3	14	IR00126 Zakuan Sudiran	P		9:36		
markt. Manager 2	14	IR00125 Zaitulana Zaotul	P		9:36		
Operations	5	IR0009 Bawani Ho		L			
* Engineering	2	IR00101 Roslee Mutalib	P		9:36		
Production	10	IR00100 Rokiah Mustaq					
* Treatment	4	IR0017 Sridevi Sangkar					
* Bicell	2	IR0024 Shirlene Stanza					
* Cells	20	IR0018 Dharmarajah Paagal					
* FDP	20	IR0021 Eswari Raman					

Who's having a good attendance?

Which department has the highest absenteeism?

Provide reports of attendances.