Integrated Management Systems

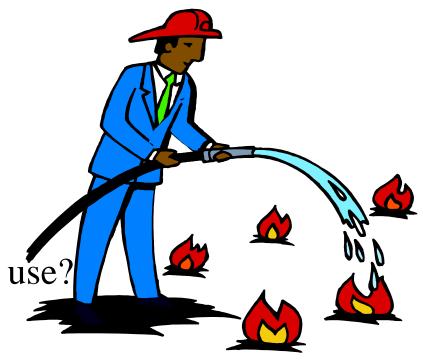
QMS, EMS and OHSAS



EMS and OHSAS Plan

- What is needed?
- Where to start?
- What is the strategy?
- How to Implement?
- Internal or external?

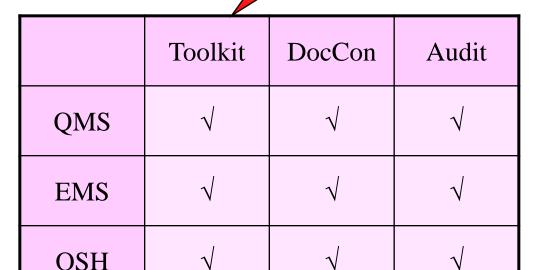
What tools and techniques to use?





EMS and OHSAS Plan

- iCT-M implementation module
 - Toolkit
 - Document Control
 - Audit
- iCT-M Standards modules
 - QMS
 - EMS
 - OSH
- Manage
 - 3 Standards
 - 3 Utilities
 - 1 software!



With CAPA
Corrective &
Preventive Action



Training Needs Analysis

Personal Training Year Planner

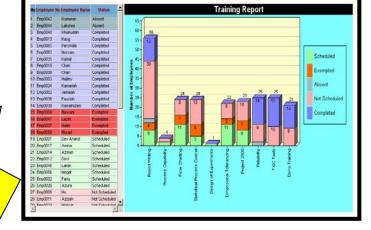


QMS

EMS

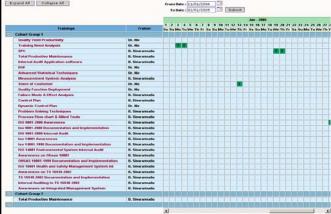
OHSAS Training Planner

Training Report



Training Schedule

	owc Yearly •					•		December 2004																					
20	ow: I sent 1					Q)		88	09	10 1	11	12 1	13 1	14 15	16	17	18	19	20	21	22 2	3 24	25	26	27	28	9 3	31	01
lo.	Training Name	Group No.	Status	No. of Delegate	Date	Start Date	End Date	Wed	Tru	Bi S	Sal	Sun M	lon T	ive We	d Th	u fri	34	Sun	Mon	Tue Y	Med T	u fi	3d	Suni	ton.	Tue V	WT.	ų Fri	Sd S
1	Resort Whiling	Group1	Status	8	-	05/Out/2004	20/Dec/2004																						
2	Report Witing	Group2	Status	6	1	04/Novi2004	05Nov2004	П		Ì			Ī	T	Ť	Ť	Т	П			T	Ť	T			T	Ì	T	П
3	Report Witting	Group3	Status	12	-	22/Dec/2004	24Dec/2004													П									
4	Process Capability	Group1	Status	2	-	01/Dec/2004	02/Dec(2004	10	S	T	9				T	T	4		GI.	П	7	T	Т	9	6	П	1		П
5	Flow Charting	Group1	Status	4	=	22/Dec/2004	23/Dec/2004			T					Ī	T	1				T	ï	T			T	T	T	П
6	Flow Charting	Group2	Status	12		12/Jan/2005	13/Jan/2005			Ì			T		Ì	Ť	T	Т		П			Ť			Ì	Ì	Ì	П
7	Statistical Process Control	Croup1	Status	11		10/Dec/2004	10/Dec/2004		J	Ť			T	T	Ť	Ť				П		Ť	Ť		21	T	T	Ť	П
0	Design of Experiments	Group1	Status	0		31/Dec/2004	31/Dec/2004			T	7		1	T	Ť	F	1	Г	93.		7	T	Т		ñ	T	T	1	П
9	Design of Experiments	Group2	Status	1		23/Dec/2004	23/Dec/2004			Ì					Ť	T		Ī				Ť	Ť			Ì	ă l	T	П
10	Dimensional Tolerancing	Group1	Status	14	-	09/Dec/2004	13/Dec/2004			Ì			İ	T	Ť	Ť	Ī			П	T	T	Ť	Ī		T	Ì	Ť	П
11	Project 2000	Group1	Status	13		09/Dec/2004	10/Dec/2004																						
12	Halability	Group1	Status	16		31/0/±/2004	31,030004																						
13	7 QC Tools	Group1	Status	15		2010ch2004	20/Oct/2004	F							T	T							T				T		П
14	Demo Training	Group1	Status	12	-	25/0cb/2004	25/0ct/2004			T			T		T	T	T					T	T					T	П





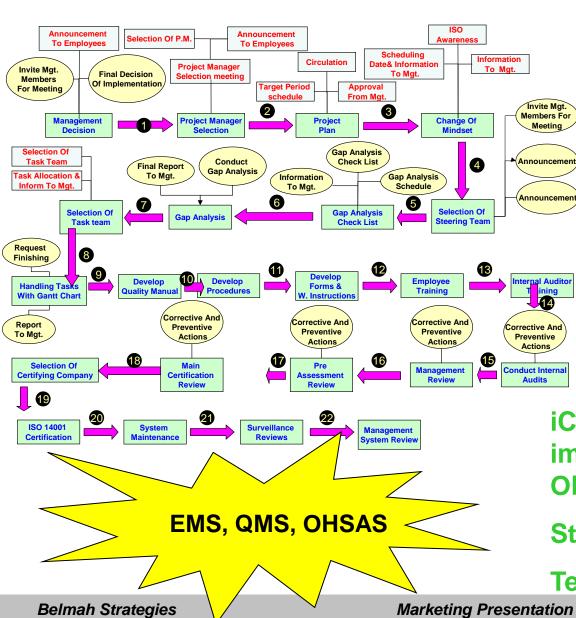
Toolkit

Invite Mat. Members For

Meeting

Announcement

Actions



Link to Project Section! Conduct Improvement Implement crucial tools:

- FMFA
- SPC
- MSA
- Ftc.

iCT-M provides a toolkit for implementing ISO 14001 and **OHSAS**

Step-by-Step

Templates available

Marketing Presentation



Step by step Toolkit







Document Control for EMS and OHSAS

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

QMS, EMS, OHSAS

Belmah Strategies

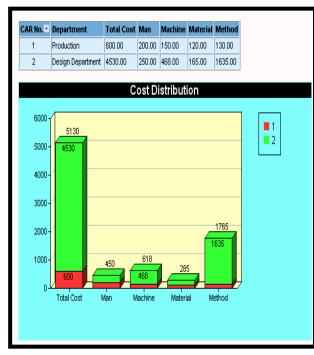
Marketing Presentation



Audit for QMS, EMS and OHSAS



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**



			I	Date			Non C					
Audit No.	Department	Section	Planned	Conducted	Delay	Major Qty	NC Nos.	Minor Qty	NC Nos.	Total	NC Status	Notes
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	oduction De
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								



Link to Project Section!
Conduct Improvement

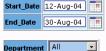


Audits

Audit Status as on Date 20/Nov/04

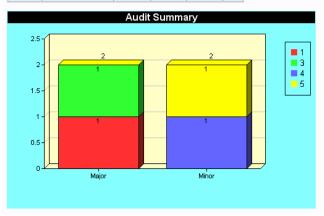
			Da	ite			Non C					
Audit No.	Department	Section	Planned	Conducted	Delay	Major Qty	NC Nos.	Minor Qty	NC Nos.	Total	NC Status	Notes
1	Marketing Department	Marketing	12-Aug-04	15-Sep-04	34	1	View			1	1 Open	
3	Production	Production	20-Aug-04	23-Aug-04	3	1	View			1	1 Open	Production Dept
4	Design Department	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



Submit

Audit No.	Department	Section	Non C	onformanc	е
			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 EMS/OHSAS

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



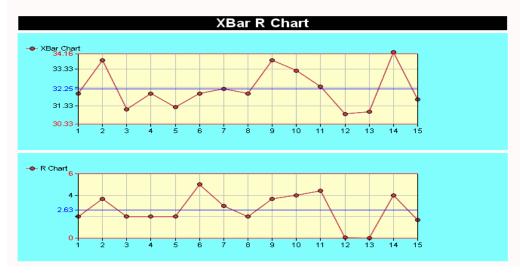
Statistical Process Control

Belmah Strategies

Name of the St	udy Molding Process			XBar Chart	R Chart	Spec Spread 68	Process Capability
Name of the Mac	nine Atkinson Molding Machine	Specification 34.00	USL 71	UCL (X) 34.16	UCL (R) 6	s = 1.27	77 ср 8.873
Type of Data Collec	ted Cavity dimension	Upper Limit (+) 37.00	LSL 3	CL (X) 32.25	CL (R) 2.63	Process Spread 7.66	64 Process Capability Index
Unit of Measurem	ent Millimeter	Lower Limit (-) 31.00	Tolerance 68	LCL (X) 30.33	LCL (R) 0	Half Process Spread 3.83	32 cpk 7.632
	¥ 1 ¥ 2 ¥ :	3 🗜 4 🗜 5 🗜 6	T 7 T 8	😲 9 😲 10 🖰	🗜 11 몇 12	😲 13 😲 14 😲 15	

	" 1	" 2	Ţ 3	T 4	" 5	₽ 6	T 7	₽ 8	T 9	‡ 10	" 11	T 12	‡ 13	T 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



Even minor variations are detected for immediate analysis



FMEA

Failure Mode And Effect Analysis

Edit	: Hide Column											
No	Part	Function	Potential Effects of Failure	Potential Causes of Failure	S	Potential Failure Mode	0	С	Current Controls Prevention	Current Controls Detection	D	RPN
=1	Imported from F-Matrix	New Function										
1.1		Ink flow rate	Ink drip	Stain on paper	5	Low viscosity	7	35	viscosity medium	Viscosity test	7	245
1.2		Lead hardness	To dry	Breaks tip	6	Not enough wax	3	18	QA Inspection	QA Inspection	3	54
1.3		Mechanical eject time	Tight spring	Nip not ejected	8	Spring hardness	5	40	Vendor quality control	Batch sampling	8	320
1.4		Mechanism slowage clearance	Barell tip size small	Jammed lead	8	Squashed barell tip	4	32	Load single stand	100% inspection	6	192
1.5		Case strength	case collapses	Pen damaged	3	Sheet thickness low	1	3	Use standard sheet	Incoming QA Inspection	5	15
1.6		Surface tackiness	Rubber Handle	Tacky pen	4	Low vulcanization	5	20	Batch test	Visual look	3	60
1.7		Clip point clearance	Not enough spring	Pen drops from pocket	6	Clip tension low	7	42	Heat temper clip	Hand pull test	4	168
1.8		Auxillary attach flatness			0		0	0			0	0
1.9		Top surface smoothness			0		0	0			0	0
1.10)	Retract mechanism force			0		0	0			0	0
1.11		Writing point finish			0		0	0			0	0
1.12	2	Ink drying time			0		0	0			0	0
1.13	3	Lead antismudge			0		0	0			0	0
1.14		Shape aspect ratio			4		0	0			0	0

• FMEA

Follows the criteria for FMEA application

• Import data

- From previous QFD
- Set criteria for import

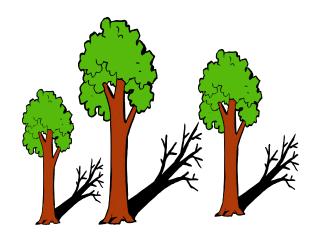
Import from OFD!!



EMS

- Find out about ISO 14001
- What ISO 14001 means for you
- Top management commitment
- Select assessment body
- Develop project plan
- Explain ISO 14001 to your personnel







OHSAS

- Find out about OHSAS 18000
- What OHSAS 18000 means for you
- Top management commitment
- Select assessment body
- Develop project plan
- Awareness of OHSAS 18000





IMS

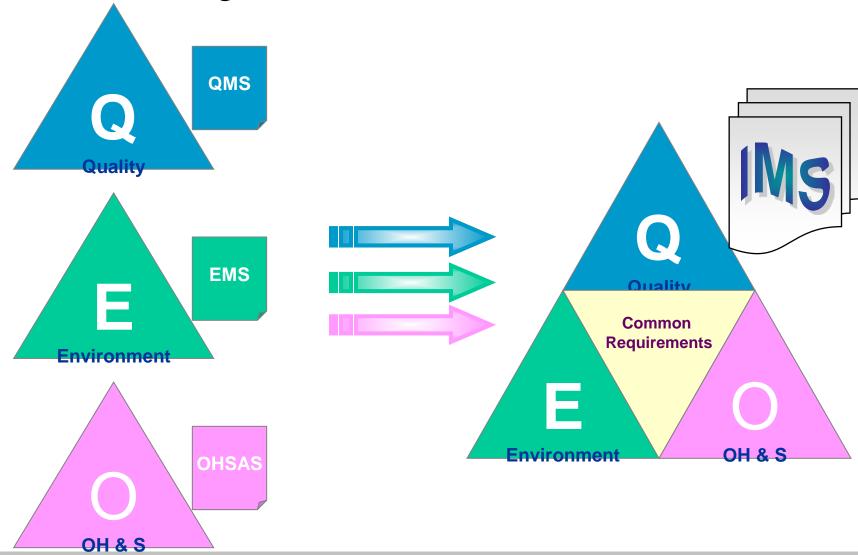
- Quality Management System +
- Environment Management System +
- Occupational Health & Safety =
- Integrated Management System
 - It follows the Plan, Do, Check, Act
 - Approach of all the major management systems requirements standards.





Integrated Management System

Structured Progression

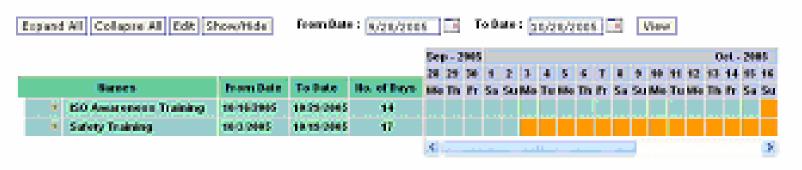


Belmah Strategies

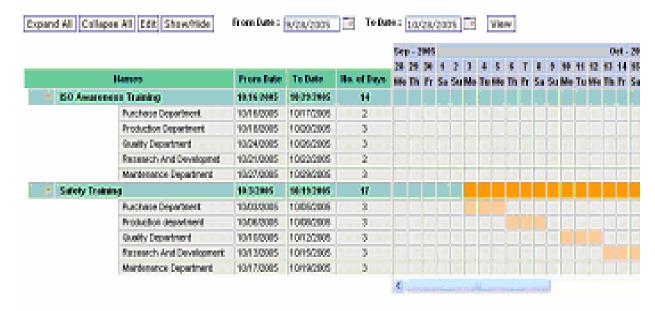


Gantt Chart for IMS Implementation

Gantt Chart



Gantt Chart



Belmah Strategies



Compatibility

- Minimize paper in your organization
 - On your table
 - In your office
 - At your shop floor
- Store safely in computers
 - Easy to store
 - Easy to retrieve
- Easy to find
 - Display required documents
 - Print audit documents







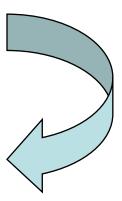
Smart IMS Management

DASHBOARD VIEW for you to be in CONTROL OF YOUR ORGANIZATION





Better DECISION MAKING



Reliable MEASUREMENT SYSTEM



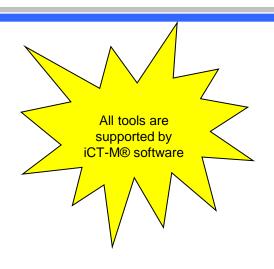
Operational FORECASTING





IMS Implementation

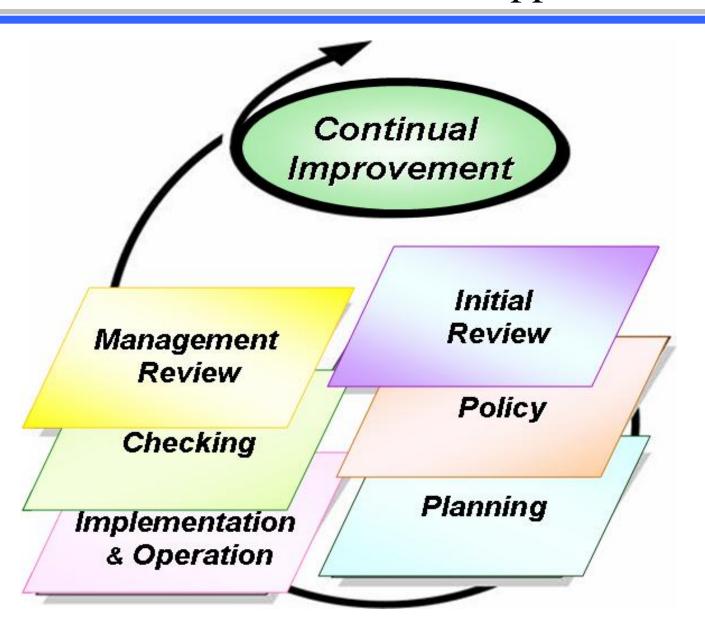
- Initial Review
 - Where are we now?
- Policy
 - Where do we want to be?
- Planning
 - How do we get to where we want to be?
- Implementation and operation
 - Planning
- Performance assessment
- Management Review
- Continual Improvement







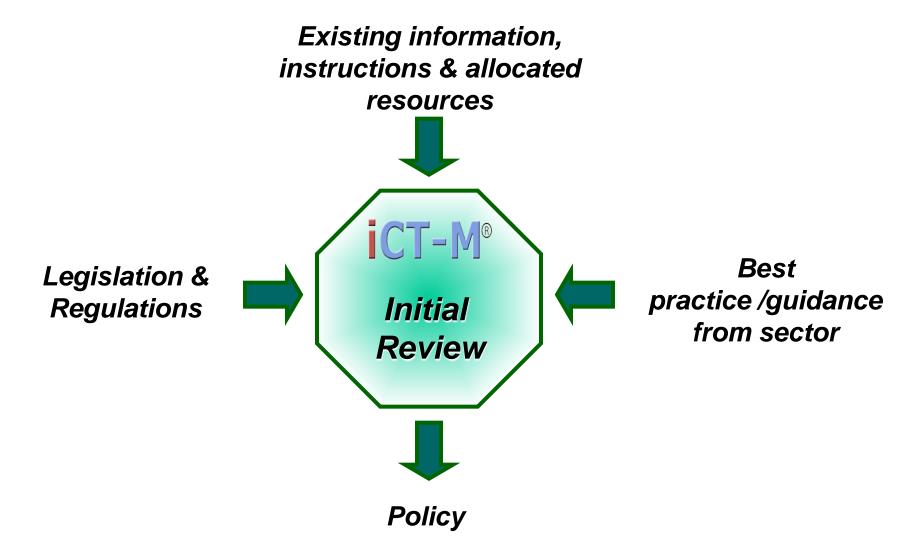
EMS and OHSAS 18001 Approach



Belmah Strategies Marketing Presentation Page 20

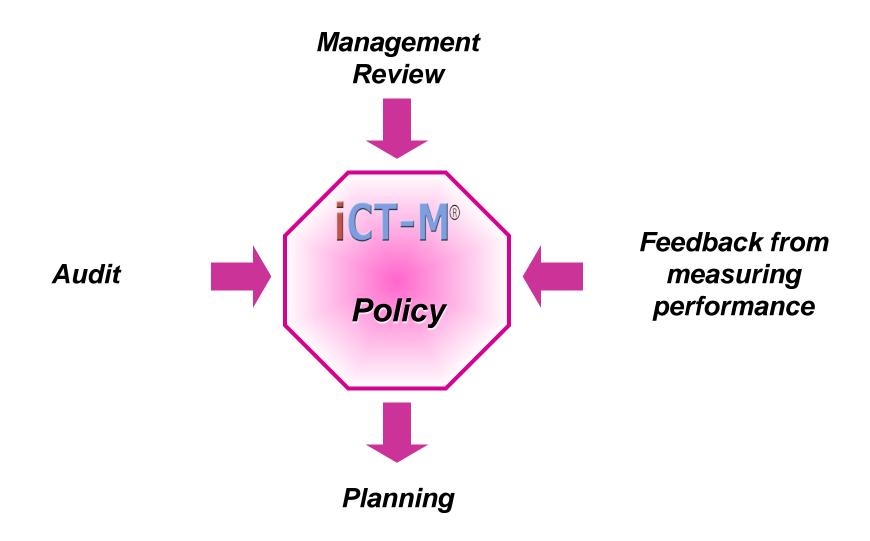


Where are we now?





Where do we want to be?



Belmah Strategies Marketing Presentation Page 22



EMS and OH&S Policy

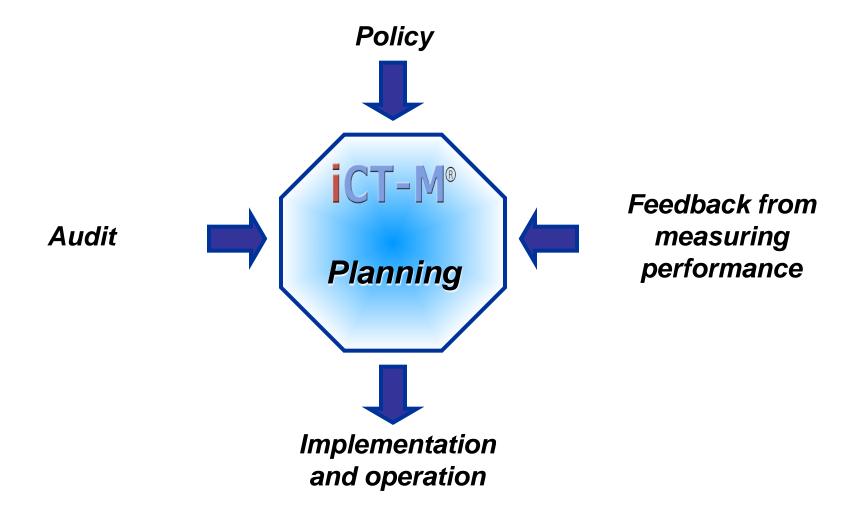
• Must:

- Commensurate to nature and scale of an organization's risks
- State commitment to continual improvement
- Commit to comply with current EMS & OH&S legislation
- Be communicated to all employees
- Be available to all interested parties
- Be reviewed by senior management
- Be signed by senior management





How do we get to where we want to be?



Belmah Strategies Marketing Presentation Page 24



Planning

- Hazard identification, risk assessment and determining controls
- Legal and other requirements
- Objectives and programmes

- Routine and non-routine activities
- Activities of all persons having access to the workplace
- Human behavior, capabilities and other human factors
- Infrastructure, equipment and materials
- Changes in the organization and modifications to the management system
- Determine controls according to a hierarchy:
 - Elimination
 - Substitution
 - Engineering controls
 - Signage/ warnings and/or administrative controls
 - Personal protective



equipment



Planning

- Hazard identification, risk assessment and determining controls
- Legal and other requirements
- Objectives and programmes

 Procedure for identifying and accessing legal and other applicable OH&S requirements





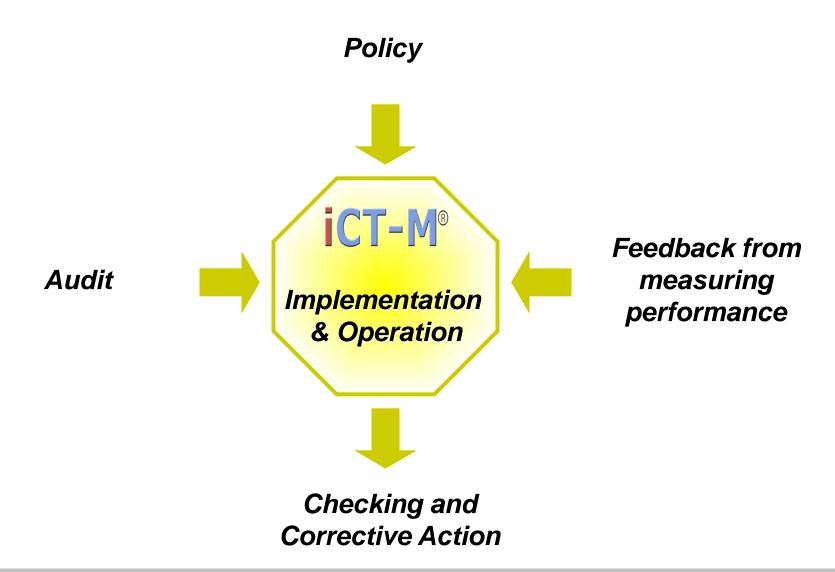
How to get where we want to be?

- Hazard identification, risk assessment and determining controls
- Legal and other requirements
- Objectives and programmes

- Objectives & Targets:
 - Measurable
 - Consistent with the OH&S policy
 - Support compliance with legal requirements and continual improvement
 - Set targets for performance against the OH&S programme and operational criteria
- Programme:
 - Define responsibilities and authorities for activities







Belmah Strategies Marketing Presentation Page 28



- Resources, roles, responsibility, accountability and authority
- Competence, training and awareness
- Communication, participation and consultation
- Documentation
- Control of documents
- Operational Control
- Emergency preparedness and response

- Any personnel working under its control are competent to:
 - Perform tasks safely
 - Understand importance of conformance to the OH&S policy and procedures
 - Know roles and responsibilities of others
 - Knows potential consequences of departure from policy
 - Take account of risk, literacy, ability etc.





- Resources, roles, responsibility, accountability and authority
- Competence, training and awareness
- Communication, participation and consultation
- Documentation
- Control of documents
- Operational Control
- Emergency preparedness and response

- Procedures for:
 - Communication both internally and externally
 - Participation of employees in the OH&S system development and operation
 - Consultation with contractors
 - Consultation with external interested parties where pertinent



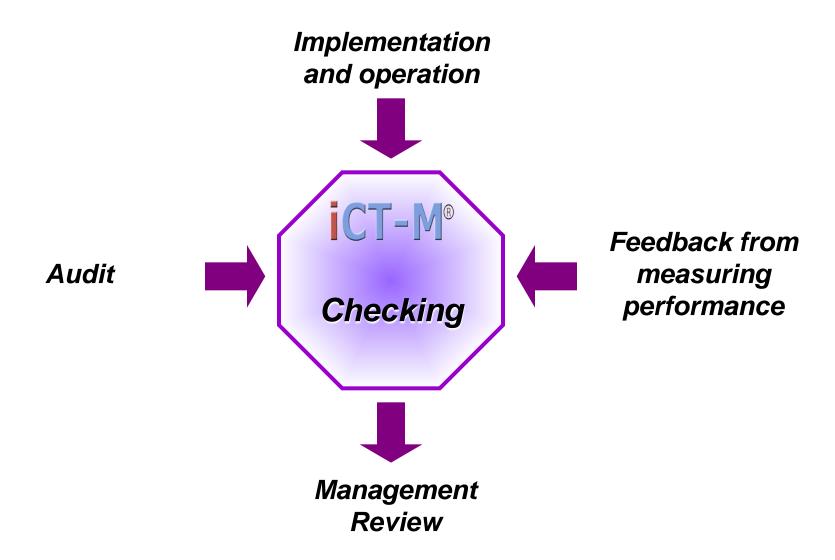


- Resources, roles, responsibility, accountability and authority
- Competence, training and awareness
- Communication, participation and consultation
- Documentation
- Control of documents
- Operational Control
- Emergency preparedness and response

- Identify potential for incidents / emergencies (eg disaster recovery plan)
- Deal with emergency responses
- Test emergency procedures, where practicable
- Ensure interested parties are involved in development of plans
- Provide information to visitors, contractors etc
- Review emergency arrangements







Belmah Strategies Marketing Presentation Page 32



- Performance measurement and monitoring
- Evaluation of compliance
- Incident investigation, nonconformity, corrective action and preventive action
- Control of records
- Internal audit

- Procedures must be in place to:
- Measure performance on a regular basis
- Monitor the extent to which OH&S objectives are being met
- Implement proactive monitoring measures
- Implement reactive monitoring measures
- Ensure monitoring equipment is calibrated/maintained
- Records of the above to be kept





- Performance measurement and monitoring
- Evaluation of compliance
- Incident investigation, nonconformity, corrective action and preventive action
- Control of records
- Internal audit

- Establish, implement and maintain a procedure for periodically evaluating compliance with applicable legal requirements
- Establish, implement and maintain a procedure for periodically evaluating compliance with other requirements to which it subscribes





- Performance measurement and monitoring
- Evaluation of compliance
- Incident investigation, nonconformity,
 corrective action and preventive action
- Control of records
- Internal audit

- Procedures need to define responsibility and authority for:
 - Recording, investigating and analyzing incidents
 - Determining underlying OH&S deficiencies
 - Dealing with breaches in procedures that resulted in an incident
 - Actions to mitigate consequences arising from incidents
 - Initiation / completion of preventive / corrective actions
 - Reviewing effectiveness of corrective and preventive actions





- Performance measurement and monitoring
- Evaluation of compliance
- Incident investigation, nonconformity, corrective action and preventive action
- Control of records
- Internal audit

- Procedures needed for identification, maintenance and disposition of OH&S records:
 - To include audit reports and reviews
 - Legible
 - Identifiable and traceable to activities
 - Stored and maintained to be readily retrievable
 - Protected against damage
 - Maintained to demonstrate conformance to OHSAS





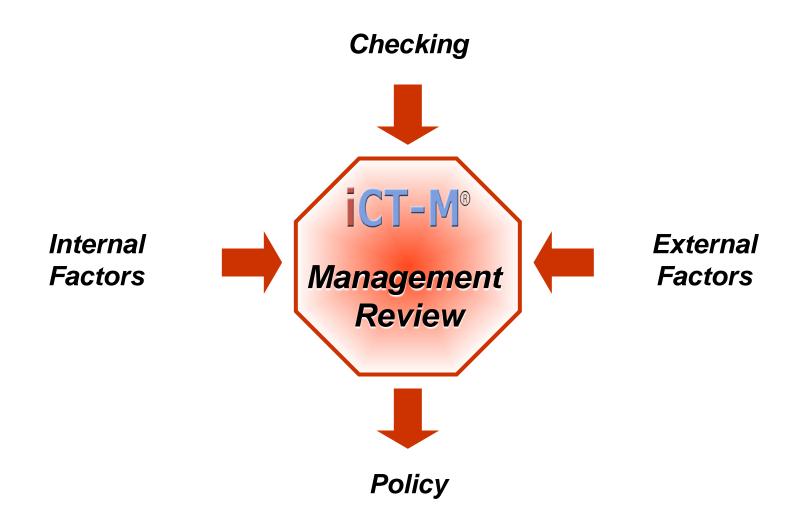
- Performance measurement and monitoring
- Evaluation of compliance
- Incident investigation, nonconformity, corrective action and preventive action
- Control of records
- Internal audit

- Auditing needed to establish:
 - Conformance with management system
 - Whether systems are properly implemented
 - Proper maintenance of systems / procedures
 - Review of previous audits
 - Audit results to be informed to senior management





Management Review





How To Get Started?



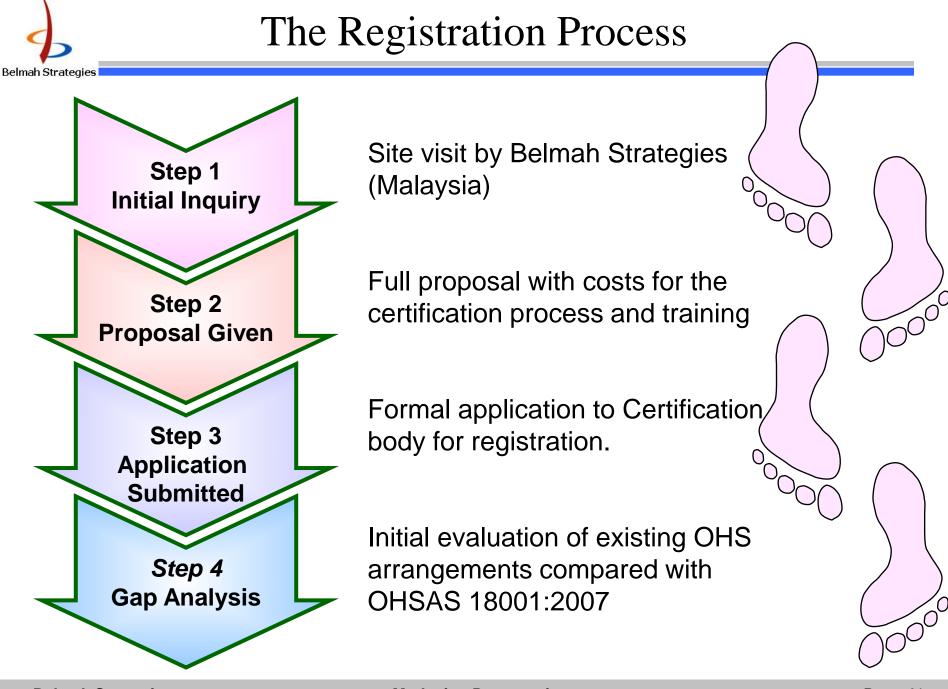
Belmah Strategies Marketing Presentation Page 39



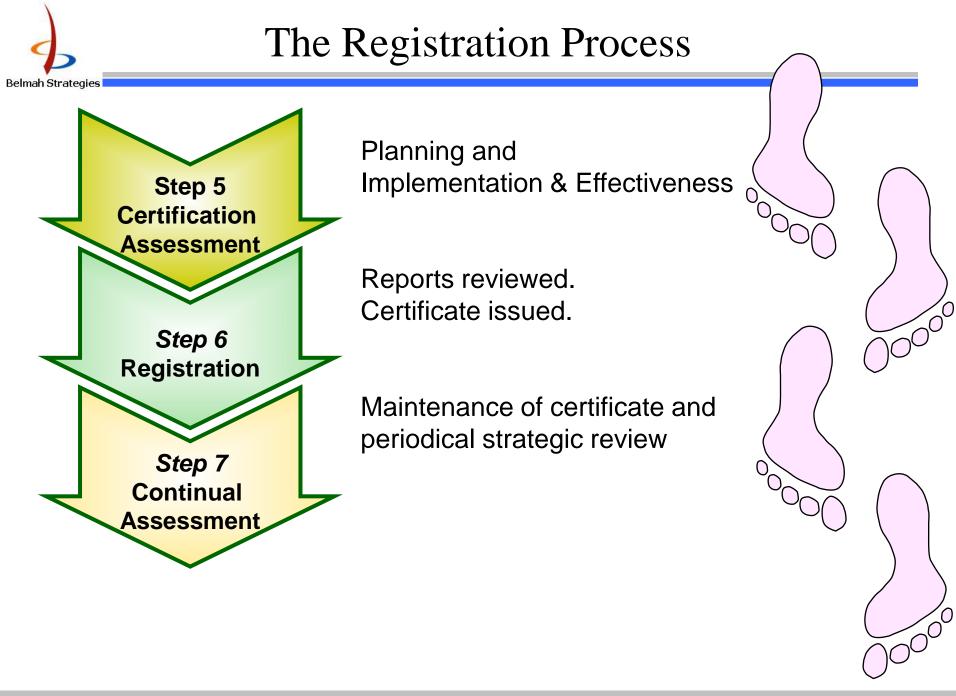
How to get started

• Preparing a Business Case

- Establish current OH&S Performance
- Present your vision and mission
- Explain your motivation
- Outline an implementation plan
- Identify the external support
- Estimate financial costs, savings and benefits
- Establish true cost of not complying
- Support your case with evidence
- Present your case to senior management



Belmah Strategies Marketing Presentation Page 41





Integrated Management Registration

Requirements standard

- For Integrating Management Systems
- Seeks to follow
 - Plan, Do, Check, Act approach
 - Of all the major management systems requirements standards
- It is intended to
 - Encourage organizations with more than one management system
 - See these as one holistic management system
 - Enable them to manage their operations more effectively



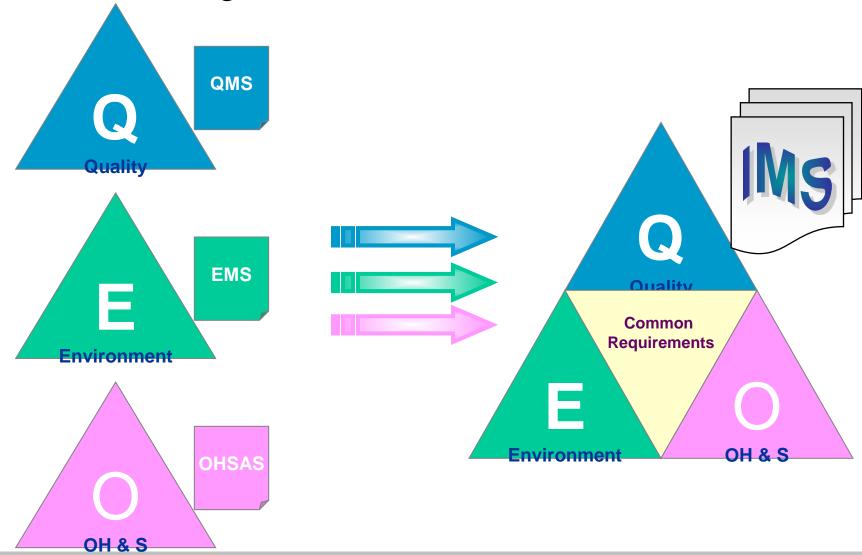
ISO Guide

- Common management system requirements:
 - Policy
 - Planning
 - Implementation and operation
 - Performance assessment
 - Improvement
 - Management review



Integrated Management System

Structured Progression



Belmah Strategies

Marketing Presentation



Business Growth



EMS







OHSAS



Trainings

- Introduction to EMS System
- Introduction to OH&S Management System
- Documentation of EMS
- Documentation of OHSAS
- Managing EMS
- Managing OHSAS
- Implementing an Integrated System
- Internal Auditor training for EMS
- ISO Internal Audit

- ISO Toolkit
- Document Control
- Developing Internal Audit Program for EMS
- Developing Internal Audit Program for OHSAS
- Internal Auditor training for OHSAS

These trainings are supported by iCT-M®