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2. Contents Introduction Scope of ISO 14001 Basic principles and methodology Monitoring, Measuring and Evaluation Comparison b/w ISO 14001:2004 And ISO 14001:2015 Benefits of ISO 14001 References 3. Introduction • ISO 14001 is the international standard that specifies requirements for an effective environmental management system(EMS). It provides a framework that an organization can follow, rather than establishing environmental performance requirements. • It helps organizations improve their environmental performance through more efficient use of resources and reduction of waste, gaining a competitive advantage and trust of stakeholders. • ISO 14001 need for continual improvement of an organizations systems and approach to environmental concerns. • ISO 14001-2004 and ISO 14001-2015 are revised version of the ISO 14001. 4. • Other ISO standards that look at different types of management system, such as ISO 9001 for quality management and 45001 for occupational health and safety, all use a High-level structure. • This means that ISO 14001 can be integrated easily into any existing ISO management system. Here we deal with the ISO 14001 and the revised versions of the ISO 14001-2004 and ISO-2015. • ISO 14001 consists of, 1. General requirements 2. Environmental policy 3. Planning 4. Implementation and operation 5. Checking and corrective action 6. Management review 5. Scope of ISO 14001 • This should encourage a clearer and more logical approach to scoping, driven by external and internal requirements. • It should not be used to exclude activities, processes or locations which have significant environmental aspects and impacts should not be used to avoid areas with clear compliance obligations. • The annex A guidance uses the term 'credibility' in relation to the setting of the scope of an organization to the setting of the scope of an organization's environmental management systems. • The scope should be clearly documented and made publicly available. • These clearer requirements on scoping will drive clarity in the thinking of organizations in scoping the management system. 6. • implement, maintain and improve an environmental management system. • Minimize harmful effects on the environment caused by its activities. • Achieve continual improvement of its environmental performance. • Assure itself of its conformance with its own stated environmental policy. • Ensure compliance with environmental laws and regulations. • Seek certification of its environmental management system by an external third party organization. 7. Basic Principles and Methodology Plan: establish objectives and processes required DO: implement the process Check: measure and monitor processes and report result Act: take action to improve performance of EMS based on results. 8. Monitoring, Measuring and Evaluation • The range of monitoring and measurement required needs to be determined for those processes and activities which relate significant environmental aspects/impacts, environmental objectives, key areas of operational control and processes, and also for evaluating the meeting of compliance obligations. • For the monitoring and measurement determined as required, the organization also needs to determine key criteria and requirements, including: Methods for monitoring, measurement, analysis and evaluation. Key performance indicators and performance evaluation metrics. When, where, how and by whom the monitoring, measurement, evaluation and analysis is carried out. Specification, management and maintenance of key monitoring equipment and data handling processes. 9. • The other key aspect of this sub-clause is the organization will need to demonstrate how it evaluates compliance with other requirements. • Most organizations fulfill this clause via their internal audit processes, but other compliance audits, checks and reviews can be used. • The organization should define its processes for evaluating compliance with legal and other requirements must maintain documented information relating to these activities. The process must cover: Frequency of evaluation Evaluating approach Maintain knowledge on compliance status 10. Comparison between ISO 14001:2004 and ISO 14001:2015 ISO 14001:2015 ISO 14001:2004 Context of the organization Understanding the organization and its context Understanding the needs and expectations of interested Parties Determining the scope of the environmental management systems Environmental management system General requirements Leadership Leadership and commitment Environmental policy Environmental policy Organizational roles, responsibilities and authorities Resources, roles, responsibility and authority Planning (title only) Planning (title only) Actions to address risk associated with threats and opportunities (title only) General Significant environmental aspects Environmental aspects 11. Compliance obligations Legal and other requirements Risks associated with threats and opportunities Planning to take action Environmental objectives and planning to achieve them (title only) Objectives ,targets and programmes Environmental objectives Objectives, targets and programme(s) Planning actions to achieve environmental objectives Objectives, targets and programme(s) 12. Support (title only) Implementation and operation (title only) Competence and awareness Competence, training and awareness Documented information Documentation Creating and updating documents Control of documentation and records Control of documented information Operational planning and control Operational control 13. Emergency preparedness and response Emergency preparedness and response Performance evaluation (title only) Checking (title only) Emergency preparedness and response Emergency preparedness and response Monitoring, measurement, analysis and evaluation (title only) Monitoring, measurement, analysis and evaluation Evaluation of compliance Evaluation of compliance 14. Internal audit Internal audit Management review Improvement (title only) Management review Nonconformity and corrective action Nonconformity, corrective action and preventive action Nonconformity and corrective action Nonconformity, corrective action and preventive action Continual improvement 15. Benefits of ISO 14001 • ISO 14001 environmental management system is the most recognized and developed management in the world. Currently more than 20,000 organizations are getting the benefits of the ISO 14001. • Requirement of suppliers to hold ISO certification. • Create safe, reliable and of good quality products/services. • Superior operational performance. • Increase productivity by reducing cycle time, errors and waste. • Increasing international trade and domestic market share. 16. • Increase customer satisfaction, interdepartmental communications, work processes, and customer/supplier relationship. • Serve consumer and the end-users of products and services. • Increased demand for their services and products through a marketing advantage. • Lowering business costs through reducing resource consumption and waste production. • Improving their environmental performance, reducing their environmental impact and controlling environmental risk. • Achieving their environmental commitments and environmental policy requirements . 17. • Meeting their environmental legal requirements. • Committing to social responsibilities. • Promoting a positive image with stakeholders, customer and employees. • Relating environmental knowledge and ensuring information is effectively communicated. 18. References • ISO 14001 Environmental Management System Training by BSI ( ) • ISO 14001-2015 Guidance Requirements, documents DNV GLAS, NO- 1322, Norway version 12/08/2015 • 14001-transition-guide.pdf • International Organization for Standardization ISO Central Secretariat Chemin de Blandonnet 8 Case Postale 401 CH – 1214 Vernier, Geneva ,Switzerland • know-about-iso-14001-2015.html I had contact with wonderful people who are interested in supplying the right solution for my needs. They did a great job of follow up and continued contact .Date of experience: May 20, 2025I am a professional review worker and much experience about writing a reviews Date of experience: July 13, 2025This organisation or who ever they are, have continuously bombarded me with emails. Despite numerous requests to unsubscribe from them. Everyday they email me, I have gone to the extent of setting up a mail rule to delete the email as soon as it comes into my inbox. If it continues, I will be taking it further. Date of experience: July 11, 2025Capterra review are not publishing this days. Imagine I used my LinkedIn profile to write a review for a software I used but didn't publish.. very bad capterra. Try to improve like G2Date of experience: June 09, 2025The entire process with Capterra is outstanding! Why, front end discussion of solution type and needs analysis is spot on. Response time is same day acknowledgment of souring criteria, and even some vendors have been known to reach out. I have used Capterra multiple times over the years and what first impressed me is still constant, their entire customer experience is beyond anything else I've experienced. Date of experience: May 20, 2025I was offered a reward gift card for a review by Capterra. I had multiple issues trying to active the Amazon gift card. I cleared cookies, cache, removing ad block. On the first try there was no option for bot support, and was locked out for too many attempts. I tried to find a contact information for support but there was only a phone line option. Its 2025, I'm a millennial, I don't want to phone you. I tried again the following day with no luck, although the chat bot function was available and it was useless, however I managed to request an email through the chat bot for support. The next day I tried a different browser and it worked – I didn't clear cookies or cache, so not sure why the browser made the difference. A couple of days later I received a support email from Tango with no reference to Capterra or my issue reference number which gives off spam vibes. The email was generic. Another concern I had was that the reference link was for rewardcodes.com which then redirects to rewardlink.com. As stated, the gift card was offered through Capterra but fulfilled by Tango, and there was no explanation for this in the redemption emails. I'm getting whiplash from the constant URL changes, pick a lane.TLDR; Such a faff, don't bother, unless you really want a £10 Amazon gift voucherDate of experience: June 07, 2025Thank you for sharing your experience with the gift card redemption process. We're sorry for the confusion you encountered. We work hard to improve our processes and your input helps us do better. If you need any assistance, please contact us at reviews@capterra.com. We're here to help.What's their two like about this company the software this app? Negative input is best fitting for Capterra . The reviews are just pure waste your time and nothing more. Of honest .# 20 dollers for incentive to give a perfect review for any software if you're still a levelware they have on the site . Now if ylow rate llow or honest it will never be seen again . If you write or a 9 10 rating . You get published . (It's a shame to think of hundreds of wasted dollers frrom a possible college student low i income family or elderly ! Vaified they say? Uhh huh ! 15 or more reviews I sent after a random email offeriing me lunch the next day free in exchange for review. They paid that time . 15 or more later with not a clue who I was they push them thru and paid for they in gift cards . I did not get paid for the most recent 7 as the wanted to prove it's me . I responded with the information documents ext and was told they could not they're unable to verify me lol. How you cannot verify somebody from a state ID a business credit card with the business name on it with the name on it in a screenshot of the software that was logged into that they requested to show that I had used the software. In the United pay me for the 6th or seven reviews. To be continued I will update within 24 hours cuz I would love to share the facts and the rest of the details so friend in the meantime or anybody who sees this one clearly I think that's fair to saay . Date of experience: May 27, 2025Thank you for sharing your experience. We're sorry to hear about the frustration you've encountered. At Capterra, all reviews, positive or negative, go through the same thorough QA process, and ratings do not affect whether a review is published. If additional information is needed to verify a reviewer, our team of experts may reach out directly. If you have not received your incentive or have questions about your reviews' status, please contact us at reviews@capterra.com. We appreciate your feedback and are here to help.All fine Than enjoy Date of experience: May 25, 2025i am positive about this app this is great appDate of experience: May 12, 2025Doesnt allow you to post anonymously so you're not harassed by the reviewed company. For this the company is low quality.Date of experience: April 26, 2025Thank you for sharing your experience with us. At Capterra, we take pride in being a trusted destination where users can share valuable insights that assist others in making informed software purchasing decisions. To ensure that each review is genuine and comes from a verified user, regardless of the rating, we have a thorough QA process which includes identity validation.I have submitted a review on capterra through compaign link provided by the vendor and promised to get gift card if my review got approved. So i wrote and my review got approved but surprise i have not received any gift card as promised.Date of experience: March 21, 2025Thank you for sharing your experience and for participating in our reviews program. While in certain cases we do offer incentives as a way to thank software buyers for their time and effort, there is a limited number of gift cards available, as noted on the review form during submission. Unfortunately, by the time you published your review, the quota for incentives had already been reached. We appreciate your understanding.Are you looking to write a review on Capterra, or do you need help crafting a response about your experience with a specific software? Let me know how you'd like to frame it! ☺Date of experience: March 21, 2025So nicely wrapped Date of experience: March 12, 2025Date of experience: March 07, 2025Scam company, stay away! Asking to fill in reviews for other companies offers you some benefits they never come back to you and in the end, they will start sending you spam,Date of experience: February 02, 2025Thank you for bringing this to our attention. We're pleased to inform you that your review was successfully published on our site. As you published it organically, it did not qualify for compensation, but we sincerely appreciate your contribution. Your insights are invaluable in helping other software buyers make informed decisions.If you wish to stop receiving emails from us, you can easily unsubscribe by clicking the link located in the footer of our emails. Thank you for your understanding and support.I was asked to fill out a review by a tool that I use on Capterra. I did not sign up for email spamming, yet there it was, 5 spam emails from Capterra in my mail.For Capterrra: Do you think its narcissist thinking to force useless spam email on anyone that crosses your path, thinking that everyone must be so interested in the trivial things you do? Date of experience: February 26, 2025Thank you for sharing your feedback, and we apologize for the inconvenience caused by the unwanted emails. You can easily unsubscribe from our email list by clicking the unsubscribe link located in the footer of our emails. If you need any assistance with unsubscribing, please feel free to contact us at teamcapterra@capterra.com. We appreciate your understanding and are here to help.Very good and very nice Date of experience: February 24, 2025Thanks for your feedback.I wrote a review and published it, but the capterra not giving reward and refuse with unknown irrelevant reason.I contact the BLR company they replied me that their link is working and still giving away reward reviews and capterra is throwing it in dustbin.Date of experience: February 22, 2025they do pay, but once, at first all seems smooth and convenient to get the voucher AND the 5 stars review for them,but then when you under rate companies that are in my opinion sort of partners your review dont get published, they only approve what is benefiting them.Date of experience: February 19, 2025Thank you for sharing your experience with us. At Capterra, we're committed to maintaining the integrity of our review process. All reviews, regardless of rating, undergo a thorough QA process. Our site features both positive and negative reviews, and the rating doesn't determine whether a review will be published. We encourage you to contact us directly at reviews@capterra.com, so we can address this issue and assist you effectively. I was surprised and sceptical at first ,then positively surprised and shocked with the ease of process and lately I am not sure what to think ,it's been a month since my last reviews ,they all got published but this time I didn't receive any of the vouchers they promised ,I have seen the reviews published so it's definitely nothing caused by me....I'm still waiting, patiently! Help...Date of experience: January 25, 2025Thanks for sharing your experience with us. We're glad to hear that your reviews have been published successfully. If you're still experiencing any issues, please reach out to reviews@capterra.com. Our team is always here to help you. ISO 14001:2015 Environmental Management Systems © Operational Excellence Consulting © Operational Excellence Consulting. All rights reserved.NOTE: This is a PARTIAL PREVIEW. To download the complete presentation, please visit: LEARNING OBJECTIVES Provide background knowledge on ISO 14001 Gain an overview of the ISO 14001:2015 structure Define the ISO 14001:2015 certification process Describe the audit approach and learn useful tips for handling an audit session 2 © Operational Excellence ConsultingCONTENTS 02 03 04 05 01 OVERVIEW OF ISO 14001 ISO 14001:2015 STRUCTURE ISO 14001:2015 CERTIFICATION PROCESS HANDLING AN AUDIT SESSION AUDIT APPROACH 3 © Operational Excellence ConsultingISO STANDARDS CONTRIBUTE DIRECTLY TO THE U.N. SUSTAINABLE DEVELOPMENT GOALS (SDGS) Some examples of popular ISO standards that are adopted by various companies and organizations: ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 ISO 26000:2010 Quality Management Systems Environmental Management Systems Occupational Health & Safety Management Systems Social Responsibility ISO/IEC 27001:2022 ISO 37001:2016 ISO 50001:2018 ISO 22000:2018 Anti-Bribery Management Systems Energy Management Systems Food Safety Management Systems Information Security Management Systems 4 © Operational Excellence ConsultingWHY AN ISO STANDARD? ISO brings together international expertise ISO 14001 provides systematic way of managing an organization's environmental aspects ISO standards are recognized around the world ISO 14001 provides easy integration with ISO 9001, ISO 45001, TS 16949, AS9100, ISO 22000, etc. 5 © Operational Excellence ConsultingA TIMELINE OF GLOBAL RISKS 2022 2 – 5 years Climate action failure 35.7% Extreme weather 34.6% Social cohesion erosion 23.0% Livelihood crises 20.1% Debt crises 19.0% Human environmental damage 16.4% Environmental risks are the main concerns. Geoeconomic confrontations 14.8% Cybersecurity failure 14.6% Biodiversity loss 13.5% Asset bubble burst 12.7% 5 – 10 years Climate action failure 42.1% Extreme weather 32.4% Biodiversity loss 27.0% Natural resource crises 23.0% Human environmental damage 21.7% Social cohesion erosion 19.1% Economic Involuntary migration 15.0% Environmental Adverse tech advances 14.9% Geopolitical Geoeconomic confrontations 14.1% Societal Geopolitical resource contestation 13.5% Technological 6 Source: Based on WEF Global Risks Report 2022 © Operational Excellence Consulting © Operational Excellence ConsultingWHAT IS ISO 14001? ISO 14001 is an international standard that sets out the requirements for an environmental management system (EMS) ● It helps organizations improve their environmental performance through more efficient use of resources and reduction of waste, gaining a competitive advantage and the trust of stakeholders ● Applies to all types and sizes of organizations ● 7 © Operational Excellence Consulting © Operational Excellence ConsultingDEVELOPMENT OF ISO 14001 Environmental Management System 1992 BS7750 1996 ISO 14001:1996 (1st issue) 2004 ISO 14001:2004 (2nd issue) 2015 ISO 14001:2015 (3rd issue) The ISO 14001:2015 standard was last reviewed and confirmed in 2021. Therefore this version remains current. 8 © Operational Excellence ConsultingOBJECTIVES OF ISO 14001 Provide organizations with a framework to protect the environment and respond to changing environmental conditions in balance with socio- economic needs Specifies requirements that enable an organization to achieve the intended outcomes it sets for its environmental management system Provide top management with information to build success over the long term and create options for contributing to sustainable development 9 © Operational Excellence ConsultingBENEFITS TO AN ORGANIZATION FOR IMPLEMENTING ISO 14001 Increase leadership involvement and employee engagement Demonstrate compliance with statutory and regulatory requirements Improve company reputation and confidence of stakeholders Achieve strategic goals by incorporating environmental issues into business management Gain competitive advantage through improved efficiencies and reduced costs Encourage better environmental performance of suppliers 10 © Operational Excellence ConsultingADVANTAGES OF CERTIFICATION Certification to ISO 14001 is voluntary ● Independent check of conformity by a third party ● Indicates an effective Environmental Management System ● National/International recognition ● Provides competitive advantage ● Improves company image ● © Operational Excellence Consulting © Operational Excellence Consulting 11 11LIFE CYCLE PERSPECTIVE End of Life (Disposal/Recycling/ Re-Use The purpose of Life Cycle thinking is to prioritize actions that can reduce environmental impacts ● Raw Materials & Processing New (or changing) products and services need to consider possible environmental impacts, shifting impacts, sustainability options, alternative approaches, downstream and upstream impacts and final disposal (end-of-life) ● Use & PRODUCT LIFE CYCLE Maintenance Manufacturing Performance Packaging & Transportation Note: Does not imply a requirement to do a life cycle assessment ● 12 © Operational Excellence ConsultingRISK-BASED THINKING Scope, Context, Criteria Identifying potential risks or threats, likelihood and consequences ● Risk Assessment MONITORING & REVIEW COMMUNICATION & CONSULTATION Risk Documenting assumptions and criteria ● Identification Risk Analysis Identifying activities by risk classification in order of priority ● Risk Evaluation Allocating necessary resources to risk management plan ● Risk Treatment RECORDING & REPORTING Documenting results and develop a Risk Management Action plan ● 13 © Operational Excellence ConsultingISO 14001:2015 IS BASED ON THE ISO HIGH-LEVEL STRUCTURE FOR MANAGEMENT SYSTEM STANDARDS 1. Scope 6. Planning 2. Normative References 7. Support 3. Terms & Definitions 8. Operation 4. Context of the Organization 9. Performance Evaluation 5. Leadership 10. Improvement 14 © Operational Excellence ConsultingHLS –THE SAME CORE ELEMENTS Environment ISO 14001 Quality Management ISO 9001 THE SAME CORE ELEMENTS Occupational Health & Safety ISO 45001 Food Safety ISO 22000 15 © Operational Excellence ConsultingISO 14001:2015 IS BASED ON THE PDCA MODEL SCOPE OF THE ENVIRONMENTAL MANAGEMENT SYSTEM ESTABLISH EMS INTERNAL & EXTERNAL ISSUES Do Plan INTENDED OUTCOMES OF THE ENVIRONMENTAL MANAGEMENT SYSTEM MAINTAIN & IMPROVE THE EMS IMPLEMENT & OPERATE THE EMS NEEDS & EXPECTATIONS OF INTERESTED PARTIES Check Act MONITOR & REVIEW THE EMS 16 Source: Adapted from ISO © Operational Excellence ConsultingISO 14001:2015KEY CLAUSE STRUCTURE (4-10) PLAN DO CHECK ACT 4. Context of the organization 5. Leadership 6. Planning 7. Support 8. Operation 9. Performance evaluation 10. Improvement 4.1 Understanding the organization and its context 5.1 Leadership and commitment 6.1 Actions to address risks and opportunities 7.1 Resources 8.1 Operational planning and control 9.1 Monitoring, measurement, analysis and evaluation 10.1 General 4.2 Understanding the needs and expectations of interested parties 5.2 Environmental policy 6.2 Environmental objectives and planning to achieve them 7.2 Competence 8.2 Emergency preparedness and response 9.2 Internal audit 10.2 Nonconformity and corrective action 4.3 Determining the scope of the EMS 5.3 Organizational roles, responsibilities and authorities 7.3 Awareness 9.3 Management review 10.3 Continual improvement 4.4 Environmental management system 7.4 Communication 7.5 Documented information © Operational Excellence ConsultingTHE PDCA CYCLE IS THE ENGINE OF CONTINUOUS IMPROVEMENT Continuous Improvement A P D C New Standard A P D Improvement C Consolidation through Standardization Current Standard Time 18 © Operational Excellence Consulting" and become part of the solution." Each and every one of us can make changes in the way we live our lives AL GORE 19 © Operational Excellence ConsultingBECOMING ISO 14001:2015 CERTIFIED The certification body examines the EMS for conformity to the ISO 14001:2015 standard ● Certification means the organization has a documented EMS that is fully implemented and meets ISO 14001:2015 requirements ● Certification does NOT mean that products are more environmentally friendly ● 20 20 © Operational Excellence Consulting © Operational Excellence ConsultingISO 14001:2015 CERTIFICATION PROCESS Conduct Internal Audit and Review Result by Top Management Confirmation of Registration Stage 1 Audit 2 4 6 1 3 5 7 Implementation of EMS Selection of a Certification Body Stage 2 Audit Continual Improvement and Surveillance Audits 21 © Operational Excellence ConsultingWHAT IS AN AUDIT? Systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which audit criteria are fulfilled ● Audit criteria ● Processes or procedures ○ Standards ○ 22 22 © Operational Excellence Consulting © Operational Excellence ConsultingWHAT IS AN ISO AUDIT? An ISO audit is an audit of your organization's compliance with one of the standards set forth by the International Organization for Standardization (ISO). An audit measures your company's systems against any ISO standard (e.g. ISO 14001:2015). 23 © Operational Excellence ConsultingAUDIT FINDINGS MAJOR NONCONFORMITY MINOR NONCONFORMITY OBSERVATION § A minor nonconformity is an observed lapse in your systems ability to meet the requirements of the standard or your internal systems, while the overall process remains intact § An observation or opportunity for improvement relates to a matter about which the Auditor is concerned but which cannot be clearly stated as a non- conformity § A major nonconformity relates to the absence or total breakdown of a required process or a number of minor nonconformities listed against similar areas § A major nonconformity at the Registration Audit would defer recommendation for registration until that major has been closed § Observations also indicate trends which may result in a future nonconformity 24 © Operational Excellence ConsultingHOW TO HANDLE AN AUDIT SESSION? Do not panic Offer evidence and explain patiently Take note of improvement areas highlighted by the auditor Ask and clarify Show internal audit report, when necessary Admit obvious non-conformities 25 © Operational Excellence ConsultingAUDITEE'S CONDUCT Polite ● Professional ● Positive / Receptive ● Sincere ● Commitment ● Formal but not overly serious ● © Operational Excellence Consulting © Operational Excellence Consulting 26 26INTERACTING WITH AUDITORS –DO'S Be honest and open Turn mobile phones to silent mode ● ● Recognize they may be experts Get the right person in to answer the question ● ● Realize they may not be subject matter experts ● Listen carefully and understand each question before answering – Be sure responses are complete and accurate ● Understand the purpose of the meeting and review related records prior to interviews ● 27 © Operational Excellence ConsultingINTERACTING WITH AUDITORS –DON'TS Assume auditors are familiar with your organization's EMS Argue internally ● ● Express unfairness ● Challenge auditors ● Ask for solution ● Show more competence in ISO 14001 ● 28 © Operational Excellence ConsultingLet us all play our part in protecting the environment! 29 © Operational Excellence ConsultingABOUT OPERATIONAL EXCELLENCE CONSULTING Operational Excellence Consulting is a management training and consulting firm that assists organizations in improving business performance and effectiveness. 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For more information, please visit www.oeconsulting.com.sg © Operational Excellence Consulting PPTEnvironmental Management Systems - ISO 14001Hector RodriguezPPTENVIRONMENTAL MANAGEMENT SYSTEMRAHUL TIWARIPPTXEnvironmental Management SystemNandar Nwe (Glory)PPT Environmental Management SystemAkshay JainPDFISO 14001:2015 AwarenessRathin BiswasPPTXEnvironmental lawsJonalynMerculloRacza1PPTXEMS ISO14001 2015 TrainingAADYA L&D Complete SolutionsPDFAn Environmental Management SystemInTouch Manufacturing ServicesPPTXEnvironmental Management SystemJeffin JamesPPTISO 14001 Managers TrainingJames CharlesPPTXEnvironmental management systemBINU BABU VARGHESEPPTXEnvironmental Management SystemsHawkesdale P12 CollegePPTXISO 14001 Environmental ManagementJasmin NUHICPPTEnvironmental ISO 14001 IntroDaveGHallPDFGreat ISO 14001 Compliance Obligations and Legal RequirementsNimonikPPTXISO14001-2015 - ems learn - translateSugiarto Soemario CitroatmojoPPTXEnvironmental Management Systems - ISO 14001Jacques HarrisPPTISO 14001:2015 Documentation pptGlobal Manager GroupPPTXIntroduction to EMS Internal AuditingTeam Web AfricaPPTEms awareness trainingnorsaidatul_akmarPPTXISO 14000 Environmental Management Systemmanish mauryaPPTISO 140001Prithvi GhagPPTPresentation on ISO 14001PINAKI ROYPDFIso 14001 environmental management systemTechnoSysConPPTXISO 14001 EMS Awarness TrainingMahendra K SHUKLAPDFISO 14001:2015 managment system manual sample Tim Matthews 2. Objective To obtain comprehensive and practical understanding and application of the ISO 14000 as well as to understand what is required in order to effectively manage the same and the benefits of compliance 2 3. Topics 3 Overview of the standard Implementation, tips & suggestions Benefits of implementation and compliance Auditing elements related to ISO 14001 Incrasing awarenees and communications Lessons learned Information Resources (references) Q & A 4. Overview Of The Standard • "ISO 14000" is a series of standards describing the requirements for establishing and maintaining an EMS in an organization • An Environmental Management System is that facet of an organization's overall management structure that addresses the immediate and long term impact of your company's product, services, and processes on the environment • Environment Surrounding in which an Organization operates,including air,water,land ,natural resources,human,and their interrelation 4 5. Overview Of The Standard (cont'd) • ISO 14001 is: – Management of environmental aspects you can control – Aplicable for any organization interested in implementation – Standard (requirements), meaning being optional – Tool to help you think GREEN and be proactive – Management standard 5 • ISO 14001 is NOT: – Regulation or law that shall be followed – One "shoe fits all" – Requiring you to reach zero emissions – Forcing you to disclose internal compliance and results – Product standard – In place to make you look good or bad MORE AND MORE SELF-IMPOSED COMPLIANCE! 6. Overview Of The Standard (cont'd) Required Elements Policy •4.1 General Requirements •4.2 Environmental Policy Planning •4.3.1 Environmental Aspects •4.3.2 Legal and Other Requirements •4.3.3 Objectives, targets, and program Implementation •4.4.1 Resources, R&A •4.4.2 Completence, Awareness and Training •4.4.3 Communication •4.4.4 Documentation •4.4.5 Control of Documents •4.4.6 Operational Control •4.4.7 Emergency Preparedness and Response Checking and Corrective Action •4.5.1 Monitoring and Measurement •4.5.2 Evaluation of Compliance •4.5.3 Nonconformity and CAPA •4.5.4 Control of Records •4.5.5 Internal Audit Management Review •4.6 Management Review 6 7. Implementation, Tips And Suggestions Environmental Policy Set by "Top Management" Appropriate to the size of the organziation and considers impact to applicable environmental aspects Represents commitment toall relevant regulations and requirements Drives prevention of pollution Focuses on continual improvement Framework for EMS objectives and targets Documented and communicated to all employees at all times Available to the public (optional) Planning ImplementationChecking and CAPA Management Review 7 8. Implementation, Tips And Suggestions(cont'd) Environmental Policy Planning Includes identification of all Environmental Aspects and Impacts (hard to do!) Keep in mind applicable regulations and requirements Establish documented objectives and targets Document and proceduralize required programs with the goal of achieving objectives and targets Involve as many as possible (cross- functional) in this stage Implementation Checking and CAPA Management Review 8 9. Implementation, Tips And Suggestions(cont'd) Environmental Policy Planning Implementation Focus on execution of the plan Document Roles, Responsibility & Authority (i.e. MR) Establish procedures for internal and external Communication Implement elements of EMS Laverage (establish) Document Control procedures Establish and test Emergency Procedures Manage the cost (typically range from $40,000 to $250,000) Timeframes typically range from 6 to 12 months Provide Top Management Support Use Cross-functional Teams Leverage existing QMS (and other) Communicate the EMS Vision Early and Often Checking and CAPA Management Review 9 10. Implementation, Tips And Suggestions(cont'd) Environmental Policy Planning Implementation Checking and CAPA Establish documented procedures for Monitoring and Measuring environmental performance Develop procedures for Nonconformance (note: maybe the same as for non-conforming materials but usually NOT) Establish procedures for Records Management (key element – maybe most important!) Conduct periodic EMS Audits (suggestion: use existing CAPA process to maintain compliance and correct/prevent issues) Management Review 10 11. Implementation, Tips And Suggestions(cont'd) Environmental Policy Planning Implementation Checking and CAPA Management Review Usually separate from QMS Management Review (different MR too) Performed periodically for the Top Management Must be documented and action items from it shall be implemented Includes, at minimum assessments of policy objectives and targets Should be focused on continual improvement process 11 12. Implementation, Tips And Suggestions(cont'd) Environmental Policy Planning ImplementationChecking and CAPA Management Review 12 REGISTRATION (CERT) PROCESS • Pre Audit (assessment) • Registration Audit (usually 3-4 months later) • 6-month / 12-month Surveillance Audits Registration costs typically vary from $15,000 to $35,000 depending on site complexity (includes 2 yrs of surveillance audits) It is investment – Carefully choose your registrar! 13. Benefits • Improved environmental performance – improved compliance = reduction in potential liabilities • Public relations • Identified opportunities for waste reduction and elimination (Cost Reductions in Waste, 5S) • Improved competitive edge in the global marketplace (Japan) • Demonstrate environmental responsibility to investors (internal and external) • Capitalize on window of competitive advantage opportunity (set the standard!) • ISO 14001 becoming the standard measure of a good Environmental Management System throughout the world 13 14. Benefits (cont'd) • Regulators, Environmental Groups, the Financial Community and others are beginning to recognize this standard • Recycle – get the money! • Mechanism to Identify Performance • Improved Employee Morale • It is less expensive to prevent pollution than to manage it after it is generated • It is less expensive to prevent a spill than to clean it up • Recycle Programs have reduced trash to the landfill by over 50% • Waste liquids have reduced by 40% • Energy reductions have saved over $100,000 last year • Water use has reduced by over 25% (claim: water = new gold!) 14 15. Auditing • Required by ISO 14001:2004 standard (4.5.5) • Done by internal qualificated group or contractual organisation (suggestion: develop your own auditors – save money and increase awareness and communication at the same time) • Evaluation of compliance with legislation and standard requirements • Reporting to top-management • Observation and evaluation of existing environmental performance • Focus on value-added and savings (recycle, removal of waste) • Ability to achieve the aims of audit • Establish & implement internal audit program to: – Evaluate conformity with requirements of EMS & international standard – Evaluate effectiveness of EMS – Provide information to top management 15 GENERAL QMS AUDITING PRINCIPLES APPLY AND SHOULD BE USED! "RECYCLE" RESOURCES! 16. Increasing Awareness and Comm. 16 17. Increasing Awareness and Comm. • STEPS TO SUCCESS – Good housekeeping and maintenance practices (5S) – Spill prevention and preparedness – Inventory management – Prudent purchasing – Waste exchange programs – Alternate cleaning processes – Reduce/reuse process wastes – Process modifications – Changes in equipment or technology – Environmentally preferable purchasing 17 LEAD BY EXAMPLE! 18. Lessons Learned • Volvo cars (Europe) • IBM computers (Asia) • Large Pharmaceutical organization (USA) • Apple – most advertizied lessons! 18 19. Information Resources • International Organization for Standardization (ISO) – entials.htm • Frequently Asked Questions (FAQ) – • Environmental Protection Agency (EPA) – Government – • IBM – • National Center for Environmental Decision-Making Research (NCEDR) – Guidance Manual (very good document – it is in pdf* format and can be saved and used within your organization) – 19 20. Thank You! 20 By Jasmin NUHIC DESCRIPTION ISO 14001:2015 is a globally recognized standard designed to help organizations implement a robust Environmental Management System (EMS). This management tool provides a systematic approach to managing environmental responsibilities and contributes to the environmental pillar of sustainability. ISO 14001 is applicable to organizations of any size or type and enables them to identify and control the environmental impact of their activities, products, or services. By implementing ISO 14001, organizations can improve their environmental performance continually through more efficient use of resources and reduction of waste, which can lead to a competitive advantage and the trust of stakeholders. The benefits of implementing the ISO 14001 framework are numerous, including increased efficiency in the use of energy and resources and reduced waste outputs. Additionally, organizations can gain a better understanding of their environmental impact and manage it more effectively, leading to enhanced reputation and reduced risks. This ISO 14001:2015 (EMS) Awareness PPT training presentation is an effective tool to educate staff, new hires, and auditees on the ISO 14001 standard. It can also be used as a supplement to EMS professional training and internal auditor training materials. The presentation covers key topics, including the definition and benefits of ISO 14001, the high-level structure, the certification process, the audit approach, and practical tips on how to handle an audit session. By teaching this material to employees, they will have a better understanding of ISO 14001 and be more comfortable with the certification process. By implementing ISO 14001, organizations can demonstrate their commitment to environmental management and sustainability. They can also improve their environmental performance and reputation, reduce risks, and enhance their competitive advantage. NOTE: This training package includes: 1. ISO 14001:2015 (EMS) Awareness PPT training presentation (PowerPoint format) 2. ISO Certification Audit poster (PDF format, in color and monochrome, printable in A3 size) LEARNING OBJECTIVES Provide background knowledge on ISO 14001. Gain an overview of the ISO 14001 structure. Define the ISO 14001certification process. Describe the audit approach and learn useful tips for handling an audit session. CONTENTS 1. Overview of ISO 14001:2015 About ISO ISO Standards Contribute Directly to the UN Sustainable Development Goals (SDGs) What are Standards? What Standards are Not Why are Standards Important? Why an ISO Standard? What is a Management System? Projected Growth in Population & Resource Demands by 2050 A Timeline of Global Risks 2022 (World Economic Forum) What is ISO 14001? Development of ISO 14001 Why Was ISO 14001 Revised? Key Improvements to ISO 14001:2015 ISO 14001 – Key Differences Between 2004 and 2015 Versions Objectives of ISO 14001 How Does ISO 14001 Work? What Benefits Will ISO 14001 Bring to My Business or Organization? Advantages of Certification Accreditation & Certification Bodies The Plan-Do-Check-Act (PDCA) Process Model Life Cycle Perspective Risk-based Thinking Benefits of the New ISO 14001:2015 2. ISO 14001 Structure What is Annex L? Annex L is a Framework for a Generic Management System High-Level Structure (HLS) ISO 14001:2015 is Based on the High-Level Structure for Management System Standards HLS: The Same Core Elements ISO 14001:2015 is Based on the PDCA Cycle PDCA and ISO 14001:2015 Clause Structure ISO 14001:2015 Key Clause Structure (4-10) Context of the Organization Leadership Planning Support Operation Performance Evaluation Improvement The PDCA Cycle is the Engine for Continuous Improvement Continual Improvement 3. ISO 14001 Certification Becoming ISO 14001:2015 Certified Aligning/Transitioning to ISO 14001:2015 The ISO 14001:2015 Certification Process What Does Certification Assure? 4. Audit Approach What is an Audit? What is an ISO Audit? What Are Audits Used For? Types of Audits Internal Audit Principles of Auditing Audit Approach Audit Emphasis Review of Documented Information Audit Findings 5. Handling an Audit Session Rights of Auditee Rights of Auditor How to Handle the Audit Session? Auditee's Conduct Do's Don'ts You may also be interested in the following Management System Standards (sold separately): Net Zero Guidelines (Based on IWA 42:2022) ISO 9001:2015 (QMS) Awareness Training ISO 13485:2016 (Medical Devices - QMS) Awareness Training ISO 14001:2015 (EMS) Awareness Training ISO 19011:2018 Auditing Management Systems Training ISO/IEC 20000-1:2018 (SMS) Awareness Training ISO 22000:2018 (FSMS) Awareness Training ISO 22301:2019 (BCMS) Awareness Training ISO 26000:2010 (Social Responsibility) Awareness Training ISO/IEC 27001:2022 (ISMS) Awareness Training ISO 31000:2018 (Risk Management) Awareness Training ISO 37000:2021 (Governance of Organizations) Awareness Training ISO 37001:2016 (ABMS) Awareness Training ISO 37301:2021 (CMS) Awareness Training ISO/IEC 42001:2023 (AIMS) Awareness Training ISO 45001:2018 (OH&S) Awareness Training ISO 50001:2018 (EnMS) Awareness Training

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