

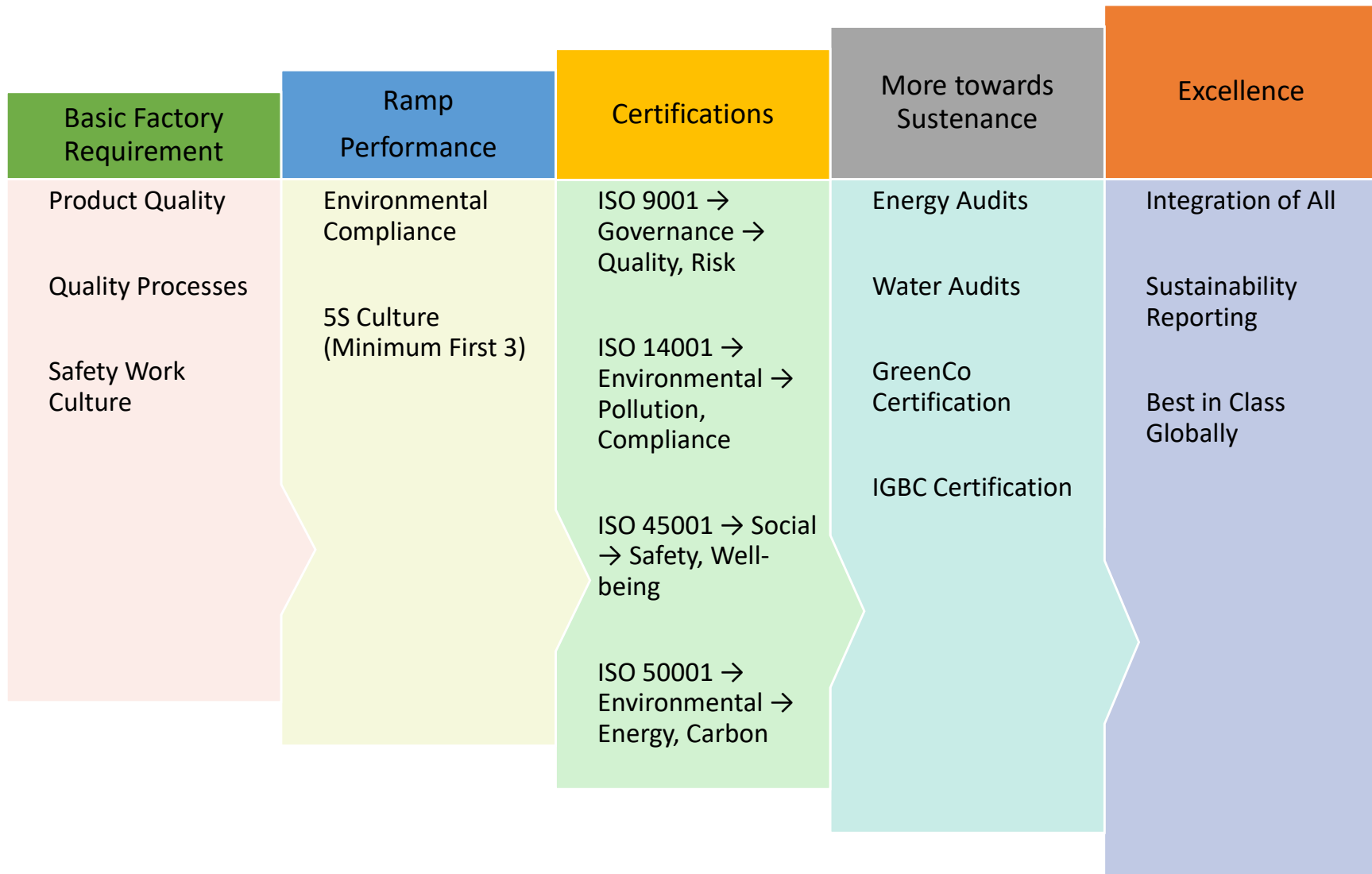
Safety in Industries & Excellence in EEHS



By : Vilas P Kulkarni
for D.E.S. Tech Inst Pune 07-03-26



Organization



The PRERANA Energy Professionals Cooperative Society Ltd; Pune



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Introduction

- Importance of Aligning Internal Systems With Global Sustainability Goals
- Regulatory Demands → Stakeholder Expectations → ESG Readiness
- Integrated Management Systems as Building Blocks for ESG



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Quality Management System ISO-9001

- Established Process Controls
- Continuous Improvement (PDCA)
- Customer Satisfaction Focus
- Certifications & Audit Readiness
- Internal Audits and Corrective Actions
- Process Performance Monitoring
- Leadership Commitment and Engagement



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Occupational Health & Safety ISO-45001

- Zero Harm Objective
- Risk Assessment and Incident Investigation
- Employee Training and Safety Culture
- Emergency Preparedness
- Legal and Regulatory Compliance
- Participation of Workers
- Workplace Hazard Identification and Control



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5-S Implementation

- Sort, Set In Order, Shine, Standardize, Sustain
- Workplace Efficiency and Cleanliness
- Visual Management for Productivity



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Environmental Management System ISO-14001

- Compliance With Environmental Laws
- Pollution Prevention Initiatives
- Waste Minimization and Management
- Water & Air Monitoring
- Environmental Aspect-impact Analysis
- Lifecycle Thinking Approach
- Sustainable Resource Utilization



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Energy Management System ISO-50001

- ▶ Energy Baseline & Performance Indicators
- ▶ Energy-efficient Systems and Retrofits
- ▶ Internal Energy Audits
- ▶ Operational Controls for Energy Use
- ▶ Monitoring and Measurement of Energy Kpis
- ▶ Integration With Business Planning
- ▶ Continuous Improvement In Energy Performance



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Intigrated Management System

- Unified Documentation and Audits
- Risk-based Thinking
- Cross-functional Objectives
- Governance Alignment



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Why Move Beyond ISO to ESG?

- ISO = Compliance | ESG = Commitment
- Investor, Customer, and Regulatory Push
- Sustainable Branding
- Long-term Resilience and Risk Mitigation



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Mapping of ISO systems to ESG

- ISO 14001 → Environmental → Pollution, Compliance
- ISO 50001 → Environmental → Energy, Carbon
- ISO 45001 → Social → Safety, Well-being
- ISO 9001 → Governance → Quality, Risk
- 5S → All → Culture, Efficiency



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ESG maturity Journey

- 1. Compliance (ISO based)
- 2. Operational Integration (KPI-driven)
- 3. Stakeholder Transparency (Disclosures)
- 4. Strategic Impact (Sustainability as Core)



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Closing message

- "ISO Certifications are Your Foundation. ESG is Your Future."
- Let's Make Transition
 - From Checklists to Consciousness,
 - From Compliance to Commitment.



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Thank You !!!

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