

Standards Module III: ISO 37101

I. Overview

This educational content on ISO 37101 was developed under award 70NANB16H268 from the National Institute of Standards and Technology to support instructors in incorporating national and international standards in course curricula. The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the National Institute of Standards and Technology or the U.S. Department of Commerce.

ISO 37101 is an internationally recognized standard for sustainable development in communities, including cities that can enable communities to foster smartness and resilience, build consensus on sustainable development within communities, and increase the efficiency and attractiveness of communities.

The module includes an overview of ISO 37101, related educational content, and module assessment tools. The educational content is comprised of eight sets of teaching materials for the clauses of ISO 37101. Each set includes a slide deck with teaching notes, supplemental resources, links to online tools and materials where applicable, example discussion questions, assignments, and/or exercises to provide a means for students to apply their knowledge and demonstrate their understanding of the material.

Module Intended Learning Outcomes (ILO's)

1. Describe the ISO 37101 framework for sustainable development in communities. (UG, G)
2. Explain the concept, purpose and characteristics of a systematic approach to sustainable development in communities. (UG, G)
3. Explain the key requirements associated with ISO 37101 elements. (UG, G)
4. Apply the ISO 37101 requirements and concepts to analyze and evaluate sustainable development issues and strategies in communities. (UG, G)

(G – Graduate Level; UG – Undergraduate Level)

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II. Module Summary: ISO 37101 Framework and Benefits

ISO 37101 specifies requirements for management systems for sustainable development in communities. A management system is a systematic approach for managing a community's strategies, programs, and services and achieving its purposes and vision. ISO 37101 provides a framework for a community to meet the intended outcomes they set for their Sustainable Development in Communities management system, respond to changing environmental conditions, and contribute to sustainable development by:

- Actively managing the sustainable development and resilience of the community;
- Improving the contribution of the community to sustainable development;
- Fostering smartness and resilience in the community, and
- Meeting their legal requirements and stakeholder expectations.

III. Educational Content Outline

The Overview materials address clauses 1-3 in ISO 37101, and subsequent materials cover clauses 4-10 individually. Definitions provided in clause 3 are addressed in the Overview materials, but are also incorporated into the educational content for the clauses in which the terms are used, as appropriate.

Educational Content Outline

- Module 3 Overview: Clauses 1-3 and an overview of clauses 4-10 in the standard
- Module 3 Clause 4: Context of the Organization
- Module 3 Clause 5: Leadership
- Module 3 Clause 6: Planning
- Module 3 Clause 7: Support
- Module 3 Clause 8: Operation
- Module 3 Clause 9: Performance Evaluation
- Module 3 Clause 10: Improvement

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IV. Resources

General readings and links to resources applicable for the module are provided below.

General Readings:

ISO (2016). *ASQ/ANSI/ISO 37101:2016 Sustainable development in communities — Management system for sustainable development — Requirements with guidance for use*. Geneva, Switzerland: International Organization for Standardization.

ISO WD 37104.2:2017(E) *Sustainable Cities and Communities – Transforming our cities: Guidance for practical implementation in cities of ISO 37101*. Geneva, Switzerland: International Organization for Standardization.

Links:

ISO Directives and Policies: <https://www.iso.org/directives-and-policies.html>

ISO Management Systems Page: <https://www.iso.org/management-system-standards.html> ISO Online Browsing Platform:

<https://www.iso.org/obp/ui/#iso:std:iso:37101:ed-3:v1:en>

United Nations Sustainable development goals:

<http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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