



UNECE: education on standardization

(possible synergies with sustainable standards)

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Standards at UNECE



- **Regulatory cooperation and standardization policies (WP6)**
- **Trade facilitation and e-business (UN/CEFACT)**
- **Quality standards on agricultural produce (WP.7)**
- **Regulations on the construction of vehicles (WP.29)**
- **Transport of dangerous goods/perishable goods**
- **Sustainable standards, ...**

Working Party on Regulatory Cooperation and Standardization Policies (Working Party 6)

UN Centre for Trade Facilitation and Electronic Business (UNCEFACT)

World Forum for harmonization of vehicle regulations (WP29),...

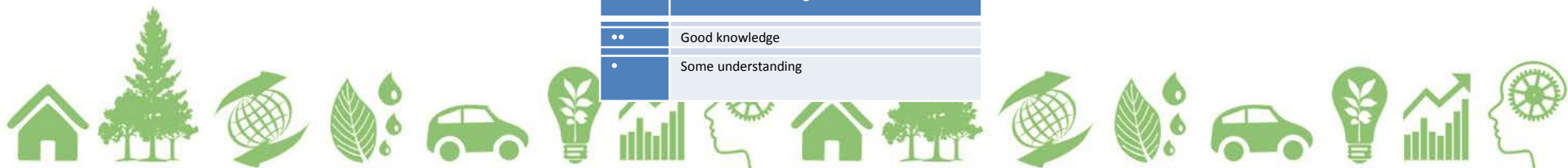




Company level: need in standards' competencies

Knowledge Functions	Standardization role	Standards identification process	Integration of the content for relevant standards	Take into account sustainable development	Integration of management systems	Product compliance		Standardization lobbying		Business intelligence in standardization
						Issues	Methods	Issues	Methods	
CEO & senior management	•••			••	•••	•••		•••	•	
Human resources	•		•••							
Marketing	•••	•	•		•••	••		••	••	••
Sales	•••									
R&D and Innovation		•	••	••	••	•••		••	••	•
Laboratories			••		••	•••	•••	••	••	•
Purchasing		••		••	••					•
Production										
Quality, Environment, Safety Social responsibility			••	••	••	•••				•
Standardization	•••	•••	••	••	••	••	••	••	••	••

•••	Substantial knowledge
••	Good knowledge
•	Some understanding





Education on standards (at WP.6)

1970:

- Adoption of UNECE Recommendation "I "
- Governments encouraged to include standardization in the curricula of educational institutions

2012:

- More than 40 years passed; revised Rec. "I" adopted by UNECE Working Party 6
- Few institutions have standards in the curriculum
- Very different educational approaches

Several other institutions have launched initiatives

- CEN/CENELEC/ETSI Working Group
- ISO/IEC/ITU work with academia; repository of learning materials





Recommendation « I »

Governments should encourage:

(a) the introduction of the subject of standardization into the curricula of educational establishments and particularly of universities for students majoring in technical and scientific subjects, as well as in legal, economic and management studies;

(b) the vocational education and training of specialists in standardization, including staff of authorities responsible for trade and customs, also using the expertise and training materials available in national, regional and international institutions (i.e. standards-setting bodies, conformity assessment and accreditation institutions, metrological institutions...)

(c) the enhancement of awareness-raising activities targeted to the business community and regulatory authorities

(d) the further study of standardization issues in order to identify best practices in ensuring that standardization and regulatory regimes contribute to meeting the legitimate concerns of society (e.g. human safety, environment) without creating unnecessary technical barriers to trade.”





Curriculum – 15 modules

1. Standardization basics
2. Benefits of standardization for society
3. Standardization and companies
4. National legal and institutional framework
5. Regulatory policies and related institutional mechanisms
6. Managing risks through standards, regulations and regulatory impact assessments (RIAs)
7. Metrology
8. Conformity assessment
9. Market surveillance
10. Management system standards
11. International standardization
12. International trade, standards and regulations
13. Standardization of information requirements and supply chains
14. A practical exercise: Standardization within a company
15. Policy issues and challenges in standardization





Education for Sustainable Development and UNECE work on standards education

What we can do together with ESD programme ?

- Prepare a new Module (ESD) on vocational education and training in support of sustainable development and the transition to a green economy ?
- To add such ESD module to UNECE educational standardization programme ?
- ESD can use existing modules from UNECE programme /repository of materials for ESD projects-training
- To discuss





for further information

“Education on standardization” webpage on UNECE website :

<http://www.unece.org/trade/wp6/educationonstandardization.html>

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