



Using “5-minute talk” and “Ideas and Questions” as a tools to open the world of standards

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Overview

Standard is document, established by consensus and approved by a standard organization or company that provides as rules, guidelines or characteristics for product or service, based on the consolidated results of science, technology and experience. ISO Manual Report 2017, 21,991 ISO standards number are available in variety sector including Construction, Transportation, Food, Health Vulnerable consumers, Excellence in service, Packaging machinery, Ageing societies, etc. [1] The 4th year students in Occupational Health and Safety major who almost plan to be a safety officer in the factory. Their jobs are related to implement standard direct and indirect. However, they know a few of both products and management system standards. Formative assessment promotes students to generate good interactions with one another. There is development in the learning process, paradigm, attitude, and subject understanding [2]. Then, “5 minute talk about standards” and “Ideas and Questions” are used to makes student know the variety of standards and their applications. Finally, the student can use a concept to apply what was learned in the classroom into real situations.



Outcome

1. By searching and sharing information, the student will recognize how much standards relate to the operation, future job, workplace, and working life and how to implement the real world.
2. The PowerPoint and additional documents are posted before class starts then the student can read it before starting that topic. Moreover, they can generate the questions and answer from their understanding.
3. “Ideas and Questions for Class Discussion” as active learning to endorse problem-solving/ critical thinking and communication skills.
4. In the middle of the semester in other activity “Related standards”, the student can contribute related standards in each field approx. 50-100 numbers.

Aims and objectives

To make students know the variety of standards and their applications.

Activity

1. At the first week of this subjects, Course structure and evaluation criteria, Introduction to standardization and standard and example of implementation international standards in the real situation are explained.
2. Before starting class in week 2-10, the students have “5 minute talk about standards”. They can use any format to explain their content.
3. After each presentation, “Ideas and Questions for Class Discussion” are generated by other student with lecturer as a moderate.
4. Each presenter recorded their topic in google sheet, while, other assigned student take note about discussion issue.

Impact

“5 minute standard talk” promise of 21st century learning for every student. Each person selected their topic related to standard and method to present by themselves. Learning & Innovation skills-4Cs including Critical Thinking, Communication, Collaboration, and Creativity [3] are contributed to practical skills. In the same time, colleague are practice 4Cs by generate questions. Lecturer give oral feedback for both side in order to make them understanding and link to the real picture of implementation. Formative assessment as essentially feedback of teacher and their friend make understanding and skill development in order to determine the way forward [2].

Future development of project

Collaborate to other subjects in order to evaluate how to apply or implement standard in other contexts.

Standard						
Standard Org.	Number	Name	Eff. Date	summary	By Student	Discussion's Issues
ISO 9001:2015	19001-2015	มาตรฐานระบบการจัดการคุณภาพ	1 ตุลาคม 2559	ข้อกำหนดระบบการจัดการคุณภาพ	1. ความหมายของ ISO 9001:2015 2. ขอบเขตของ ISO 9001:2015 3. หลักการพื้นฐานของ ISO 9001:2015 4. ข้อกำหนดของ ISO 9001:2015 5. ข้อกำหนดของ ISO 9001:2015 6. ข้อกำหนดของ ISO 9001:2015 7. ข้อกำหนดของ ISO 9001:2015 8. ข้อกำหนดของ ISO 9001:2015 9. ข้อกำหนดของ ISO 9001:2015 10. ข้อกำหนดของ ISO 9001:2015	1. ความหมายของ ISO 9001:2015 2. ขอบเขตของ ISO 9001:2015 3. หลักการพื้นฐานของ ISO 9001:2015 4. ข้อกำหนดของ ISO 9001:2015 5. ข้อกำหนดของ ISO 9001:2015 6. ข้อกำหนดของ ISO 9001:2015 7. ข้อกำหนดของ ISO 9001:2015 8. ข้อกำหนดของ ISO 9001:2015 9. ข้อกำหนดของ ISO 9001:2015 10. ข้อกำหนดของ ISO 9001:2015
ISO 14001:2015	14001-2015	มาตรฐานระบบการจัดการสิ่งแวดล้อม	1 ตุลาคม 2559	ข้อกำหนดระบบการจัดการสิ่งแวดล้อม	1. ความหมายของ ISO 14001:2015 2. ขอบเขตของ ISO 14001:2015 3. หลักการพื้นฐานของ ISO 14001:2015 4. ข้อกำหนดของ ISO 14001:2015 5. ข้อกำหนดของ ISO 14001:2015 6. ข้อกำหนดของ ISO 14001:2015 7. ข้อกำหนดของ ISO 14001:2015 8. ข้อกำหนดของ ISO 14001:2015 9. ข้อกำหนดของ ISO 14001:2015 10. ข้อกำหนดของ ISO 14001:2015	1. ความหมายของ ISO 14001:2015 2. ขอบเขตของ ISO 14001:2015 3. หลักการพื้นฐานของ ISO 14001:2015 4. ข้อกำหนดของ ISO 14001:2015 5. ข้อกำหนดของ ISO 14001:2015 6. ข้อกำหนดของ ISO 14001:2015 7. ข้อกำหนดของ ISO 14001:2015 8. ข้อกำหนดของ ISO 14001:2015 9. ข้อกำหนดของ ISO 14001:2015 10. ข้อกำหนดของ ISO 14001:2015

Reference:

- [1] ISO Manual Report 2017 (2018). Retrieved from https://www.iso.org/files/live/sites/isoorg/files/about%20ISO/annual_reports/en/annual_report_2017_en.pdf
- [2] Wynne Harlen & Mary James (1997) Assessment and Learning: differences and relationships between formative and summative assessment, Assessment in Education: Principles, Policy & Practice, 4:3, 365-379, DOI: 10.1080/0969594970040304
- [3] Battelle for Kids (2004). Our mission is to realize the power and promise of 21st century learning for every student—in early learning, in school, and beyond school—across the country and around the globe, retrieved June 15, 2020 from: <https://www.battelleforkids.org/networks/p21>