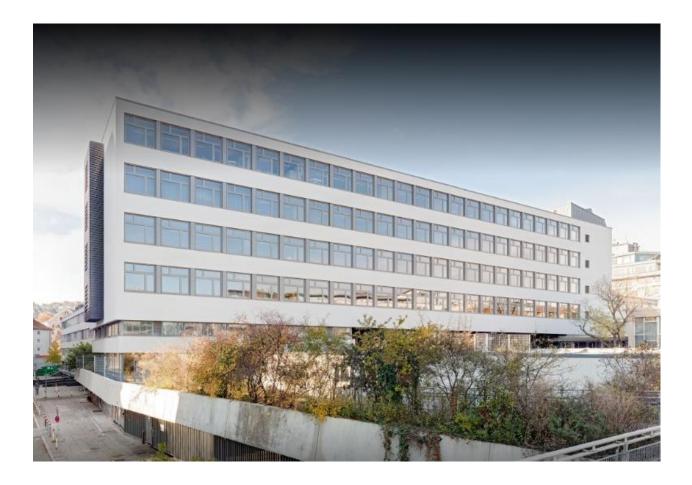






Project No. 2019-1-DE02-KA202-006099



mes web-based-training

INDI4.0 Project Stuttgart | 06/2021 "Methods of learning" Intellectual Output "IO2"

PILZ Module Basic Training about machinery safety (learning nugget) web-based-Training by company PILZ Source: https://www.pilz.com/de-DE/trainings/articles/196949

Project:	INDI4.0 Industrial Interaction 4.0
Partner:	Max-Eyth-Schule Stuttgart mes-Stuttgart Alexander Hörtig
Name of the method:	<complex-block></complex-block>
Annotation:	Web-based trainings, also known as WBTs, are still the most frequently used form of learning in e-learning. Nowadays, learning fields and training plans are referred to as learning nuggets. With good reason: They make learning flexible - in terms of time and space -, enable an individual learning pace and deepen the content through interaction. Since they are endlessly repeatable, they also lead to cost savings and guarantee a constant quality of the training. High acceptance: Videos are the most popular learning medium - this is not only scientifically proven, but also recognizes that more and more people are voluntarily watching learning and explanatory videos on YouTube. This enables the teaching content to be divided into small units and to be supplemented again and again with control and repetition sequences
Target group:	Vocational Students (Industrial mechanics, mechatronics and electronics) up from the first year of starting their education. Trainers can be Vocational teacher (practical or theoretical) or Trainers like engineers out of the industry or even Machinery safety trainer for adult education. Safety officers, Constructors, techniciansaso.

Duration of time:	approx. 6-8 hrs depending on the students understanding and approx. 1 hr for exams.
Description:	Students may get access to the very difficult subject of machinery safety and CE certifying process for machines which will be used and sold within the European community. Students get in contact with European law.
Outcomes:	It opens the mind of the students for a subject they may not mentioned before as a separate part of programming a machine. The subject combines the interests of two professions (mechanical and electrical). The interests of manufacturer (safety) and company (profits).
Evaluation:	At the end of each chapter 15 are available (learning nugget) there is a small exam which the teacher can use for evaluation or as a student competition.
Useful links:	www.pilz.de www.pilz.com https://www.pilz.com/de-DE/trainings/articles/196949
Extra materials:	 Practical models wich can be shown to help and understand why machine safety is so very important. Examining real models and understanding their function supports the student on this complex topic. Examine mechanical training models and machines to find out what hazardous situations are possible. The influence of humans in relation to their work on the machine and possible errors.
Photos/Video:	





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