

Best Practice cases in VET - Finland (Partners: TEAK)

AutoCad by e-learning – TEAK OY

Duration: 4 weeks

The course is run by TEAK OY and certified by Finnish Ministry of Education. The qualification title provided by this course is accepted at polytechnics and at universities as a module within technology studies. The certificate is issued by the National Board of Education and corresponds to specific Vocational education and training qualification diplomas.

This course is planned to give the basics in Cad programming and planning.

This course is made for training different types of students: job seekers, adult learners, in-job training, etc. The aim of the course is to make new technology based knowledge easy and available for anyone interested despite their location or time schedule.

The course objectives are to introduce basic AutoCAD knowledge to students including drawing, modifying and printing of different 2-dimensional drawings using AutoCAD programs.

The course gives the basic knowledge of cad that could be then improved by use of different cad programmes and advanced drawings in other training at work. It is also a module that is accepted in further education in polytechnics and universities in Finland.

The teaching Methodology is based on e-learning. The student is studying AutoCad through the internet. The education materials have been prepared and inserted into "TEAK Moodle" where it can be read or copied by the students. The material includes "FlashVideos" for showing the student "how to do" certain processes. The teaching includes classroom sessions for two evenings, 3 hours each, in order to give the students more personal teaching and guidance. If the students do not have the possibility to attend the classroom teaching they can join the class through the internet (Adobe Acrobat Connect Professional) where they can follow the teaching, join the discussion and make comments. Students can also download all material given out by the teacher. If they do not have the possibility to join the class at the scheduled time, they can go to the internet and go into the "recorded class" and get the teaching as it suits them best. If any of the students wants to repeat the class teaching they can do the same as many times as they want. The homework and the exercises work through Moodle and has to be sent to the teacher using the Moodle-programme. All contacts and discussions with the teacher outside the classroom will be through the Moodle. The students will get all the necessary equipment from the school, the laptops including all necessary programmes, the headset and the microphone.

The assessment methods are based on-line Moodle exercises and quiz and some practical drawings.

Learner/Employer motivation Course promotion: The e-learning system enables student to not be connected when studying. Through this e-learning system the student can study whenever it is convenient for him. He/she can use as much time for the studies as needed. It does not matter if the person is a student, unemployed or working... the system allows you to carry out the course at times that are suitable for each person. The education material and the samples shown (Flashvideos) together with the flexibility make the course very motivating.

The woodwork industry in the region will be involved when marketing the courses.

It means that the motivation for the student is very good because of job possibilities in the various companies.

Multiplicity: The e-learning can be modified to include different education modules depending on the personal demand for education. We have education in these different subjects:

- AutoCad (Drawing and planning program)
- Inventor (3Dimensional planning program)
- SolidWorks (3Dimensional planning program)
- CnC programming (Programming numerical production machines)

Why this is an example of Good Practice

Course provider's view: The course can be arranged for students all over Finland. Use of Moodle and Acrobat enable more efficient training of a globally dispersed audience; and reduced publishing and distribution costs. E-learning courses locate and target individual learning preferences.

Participant's view: *On-demand availability* enables students to complete training conveniently at off-hours or from home. This is made easy for students to participate and to study at times suitable for them. *Interactivity* engages users, pushing them rather than pulling them through training.

Industry's view: The course is built to fill the need of the industry. People working daytime in the industry can easily join the course and without difficulties arranging absence from work. Some companies are sponsoring the personnel to participate in the course. Some companies allow their personnel to spend some work hours for this course also.

Course Evaluation: The standard methods of evaluation are applied to this course.

Quality Assurance: The Quality Assurance is supervised by the outside tripartite body nominated by the National Board of Education.