



Inspiring – an environment far different from a traditional classroom setting.

Computer training programs allow a free choice of time and place

One EduCAT and an espresso, please!

The progress of computers is not to stop. They have been employed in paper machines for many years and are now increasingly used for training purposes. Independence is the magic word. One could learn to run a machine from just about anywhere – why not on a beach or in the mountains?

Learning how to make paper was still quite easy some decades ago.

A newcomer followed the advice of senior employees and worked his way through – “Learning by Doing“.

In today's paper mills, such an approach is hardly possible anymore. A modern paper machine can have tens of thousands of single parts and some hundred computers alone to control it. Learning and practising every possible situation on the paper machine is not feasible anymore. It is too expensive, too dangerous, too time-consuming – just to mention a few reasons.

Indeed, there is a need

When starting new paper machines or machine sections, several skills are required, in particular for process, control, and for papermaking. Nowadays, only computer-based training offers the possibility to learn all these

aspects simultaneously and also make mistakes safely.

In earlier times, the start-up of a new paper machine took several months. The machine supplier's experts trained the employees, and crucial issues were discussed directly at the machine. This method is good and frequently used, but not always the best.

Finding qualified people is not easy everywhere, either. If skilled manpower or on-site training facilities are not available, the customer is highly dependent on the supplier's know-how. More and more greenfield projects are realized, and extremely tough time schedules are set. Furthermore, due to the very high degree of automation, experts are needed to operate a paper machine.

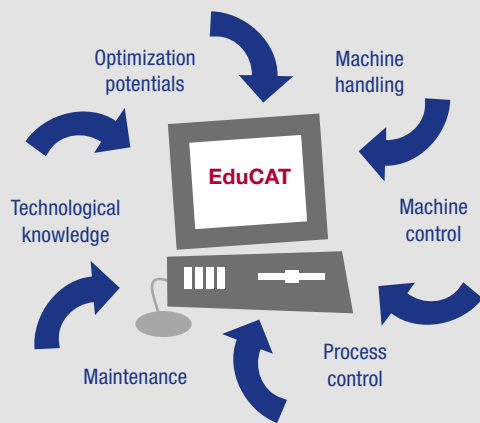
So, where to find these prodigies? Since they are rare, Voith Paper offers a wide range of training classes that

can be done around start-up. The new packages are called EduPACKs (Educational Package), featuring interaction and control of success as its most essential functions and using EduCAT (Educational Computer Assisted Training), which is a clever e-learning software to combine know-how transfer and testing of learning progress.

Independent of time and place

Controlling something complex is not easy to learn from a handbook or from some slides only. For the younger generation growing up with computers, interactive learning is already routine. Everybody else, never fear! No special program skills or particular computer requirements are needed.

E-learning has several notable advantages: Learning is not restricted by time or place. The modules can be trained as many times as needed and



Demands on training.

	Learn	Qualify	Improve
Safety			
Technology		Test	
Components			Feedback
Operation		Certificate	
Maintenance			

Components of EduCAT.

are diverse, containing presentations, animations, text, videos and interactive exercises.

Since the customer needs are varied, several training packages are available. The keywords for EduPACK Basic are conventional training and e-learning with EduCAT. EduPACK Advanced offers an additional knowledge test for control of success. A web portal for e-learning is planned to be realized in the near future. Each trainee will have personal access to the portal, where his/her additional questions will immediately be answered by experts. On the Internet, you can evaluate your learning success online at any time. And if necessary, go through it all over once again ...

If a fair amount of answers is correct, the trainee can print a certificate as a

proof of successful training done with EduCAT.

Joachim Schipp, training developer at Voith Paper St. Pölten in Austria, is one of the brains behind EduCAT. According to him, the goal is to provide complete, standardized computer-based training. However, having one module ready will not be enough. Since every paper machine is unique, all modules are tailored according to the respective customer's needs. Operators or technologists have other needs than maintenance people. But no matter who is learning, there is one subject they all have in common: safety.

All the machine sections and functions can be trained on the computer. No matter, if a single part rebuild or a complete new machine is concerned – everything is possible. Moreover,

the training modules can be updated and adapted to existing machine sections.

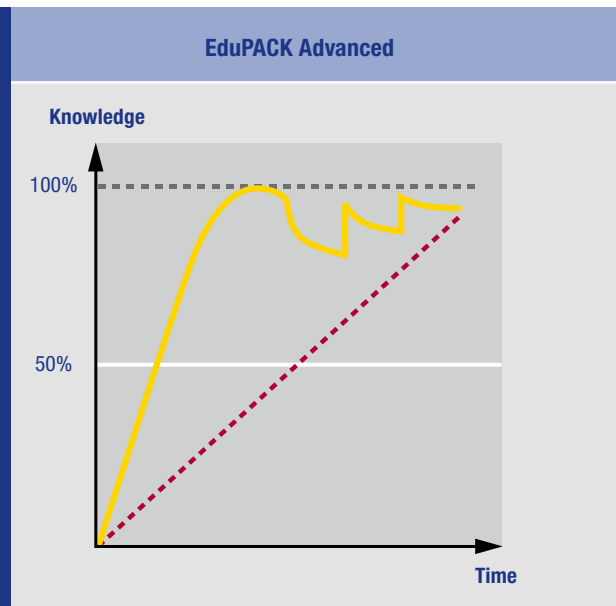
EduCAT can also help solving tricky questions. “Especially if the problem is of technological nature, a special training module can be programmed for it”, the developer remarks.

Blending is the answer

Even if Joachim Schipp's job is to develop e-learning, he believes that a perfect training does not consist of computer-based learning only. “We would never just send the interactive training CDs to the customer and then let him alone with them”, he emphasizes.

The best alternative would be “blended training” with EduPACK Advanced. Personal training on site, inter-

	EduPACK			
	Conventional	Basic	Advanced	Student
Functionality	Presentations, handbook, Training on site	EduPACK Conventional + interactivity	EduPACK Basic + control of success	EduPACK Advanced (not project-oriented)
Conventional training	■	■	■	
Interactive training with EduCAT		■	■	■
Examination mode with EduCAT			■	■
E-learning Webportal*			■	■
				* planned



Interactive training with EduPACK Advanced helps to deepen and evaluate what has been learned so far. Thanks to repeatable training modules, the goal of 100% know-how is within reach!

EduCAT - Educational Computer Assisted Training

VOITH

Speedliner

Learning pattern
Multiple choice

"Concerning misting, which of the statements apply?"

Click at the correct answer(s)!

- Misting only occurs when the coat weight per side exceeds 20 g/m².
- Misting is always the same, irrespective of the starch formulation.
- The higher the machine speed, the greater is misting.
- On small applicator rolls the risk of misting is not so great.

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After learning you can test your knowledge.

active learning with the computer, followed by a face-to-face discussion, are the perfect combination. Computer-assisted training is never unilateral. "The trainees' feedback is highly valued in order to enhance the contents of training", Joachim Schipp reminds us.

The computer is a patient teacher and a just and reliable examiner. However, the customer can perform additional tests to evaluate the training success. E-learning can also be used as a test tool to measure the success of other learning methods.

Made for long-time use

Unfortunately, the training does not always have the highest priority and shrinks quite often to a minimum out of cost reasons. An e-learning tool is made to last a long time and to be

used constantly. Deepening and repeating are the keys to effective learning! Individual aspects should also be taken into account. People differ in learning speed and previous knowledge. EduCAT helps to effectively balance these differences.

"Luckily, more and more customers are getting very interested in the most successful training methods. Fortunately, the selection of EduPACKs available is big enough to fulfill anyone's needs – no matter how large or small they are", Joachim Schipp remarks.

EduCAT - Educational Computer Assisted Training

VOITH

Speedliner

Learning pattern
Listbox

"Complete the free fields with the correct name of the component or the correct value!"

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The right answers are green, the wrong ones are red.

Customer Comment



Theofil Krantz
Training Coordinator
Stora Enso, Fors mill,
Sweden

Stora Enso Fors was one of the first users of EduCAT training module. After accomplishing the final test, Fors Training Coordinator Theofil Krantz sent his enthusiastic remarks to Joachim Schipp. "I must congratulate you and Voith on producing this material. I hope to see more of this kind of material in the future! Overall it is very well done and once again, I salute you for your good work."

Contact



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