

MOTIVATIONAL MATERIALS

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Ch. 6 Motivational Materials

Inspirational Articles about Training

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December 11, 2006

Time in a Bottle!

Written and Recorded by "Jim Croce"

Album: "You Don't Mess Around With Jim" - 1972

*If I could save time in a bottle
The first thing that I'd like to do
Is to save every day
Till Eternity passes away
Just to spend them with you*

*If I could make days last forever
If words could make wishes come true
I'd save every day like a treasure and then,
Again, I would spend them with you*

*But there never seems to be enough time
To do the things you want to do
Once you find them
I've looked around enough to know
That you're the one I want to go
Through time with*

*If I had a box just for wishes
And dreams that had never come true
The box would be empty
Except for the memory
Of how they were answered by you*

*But there never seems to be enough time
To do the things you want to do
Once you find them
I've looked around enough to know
That you're the one I want to go
Through time with*

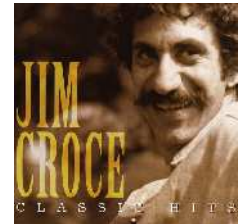
Time on a DVD!

Jim Croce's 1972 song expressed a very universal and timeless human desire to save time in a bottle!! EKHO's training videos have saved time on a plastic DVD for you:

- Time saved when you complete the course and become much more efficient.
- Time to replay the instructor on demand when future needs arise.
- Time to take the course when you want.
- Time to take the course as fast as you want.

EKHO's Memory Strips have saved time on a plastic keyboard strip for you:

- by placing important shortcuts and time saving tips at your finger tips.
- by helping you save up to hundreds of hours per year with more efficient keyboard shortcuts.

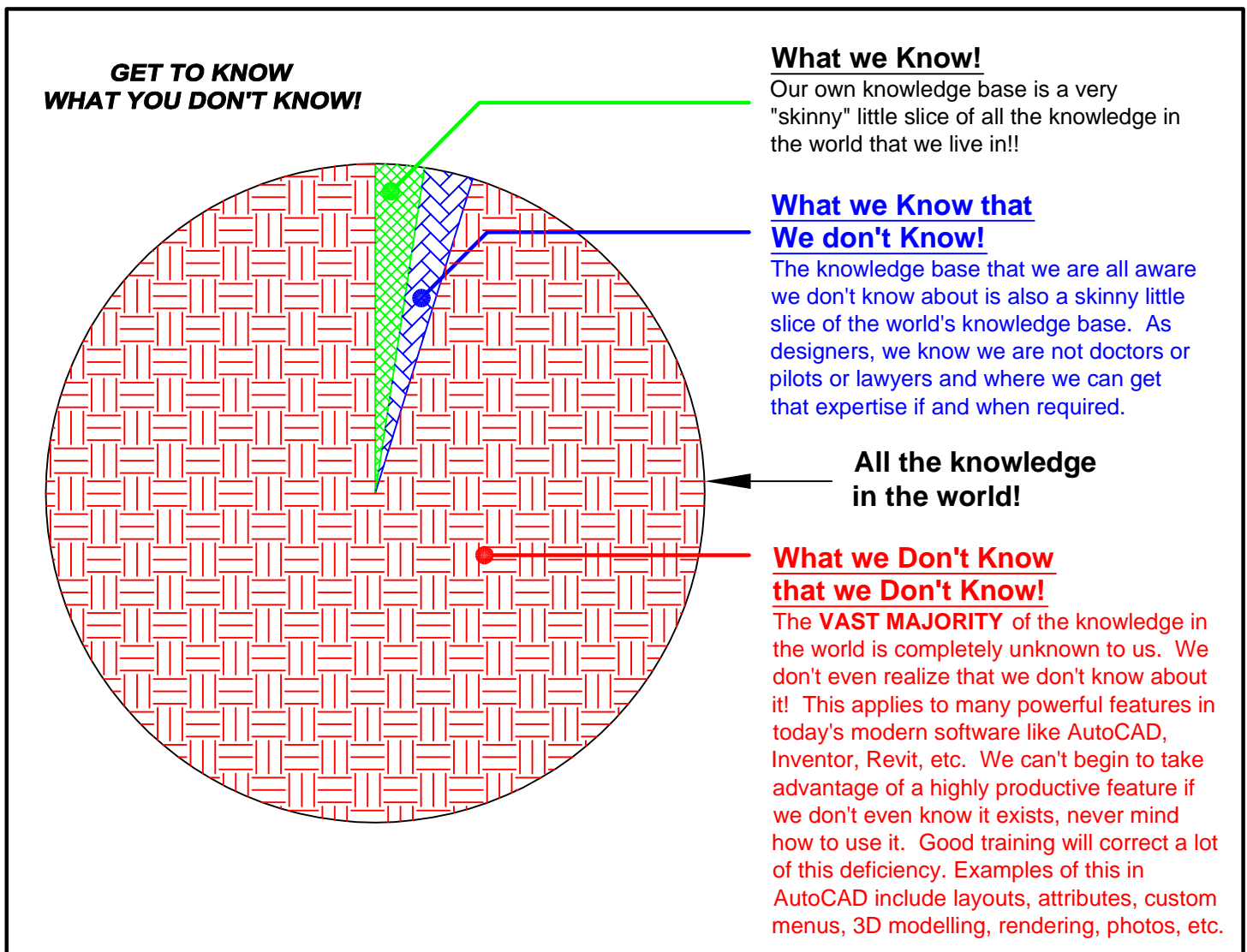


We Don't Know What We Don't Know!

Get to Know what you Don't Know!

Good software training can provide significant insights into major productivity features that we are often totally unaware of until it is demonstrated and taught during a refined course by an experienced instructor. We experience this all the time in our classroom with very experienced AutoCAD users who have just not had the time to explore as much as they would like, due to the very busy nature of their jobs. I also experience this personally every time I take a professionally taught class on any subject that I have minimal knowledge of.

For years we have seen most of our mature adult students overstate their Microsoft Windows skills when we ask how their knowledge base is with respect to Microsoft Windows. Part of this overstatement is motivated by a desire to avoid the cost of an additional 2 day course on top of our basic 5 day AutoCAD course. Mostly though it is a problem of students not knowing how much more they have to learn. We created a Windows for AutoCAD [pre-requisite quiz](#) to help them gain some insight into how much more they might need to learn. This phenomenon is going to be true for all of us in some area of our lives.



Cost to Fix an Error!

LET THE SOFTWARE ASSIST YOUR QUALITY CONTROL!

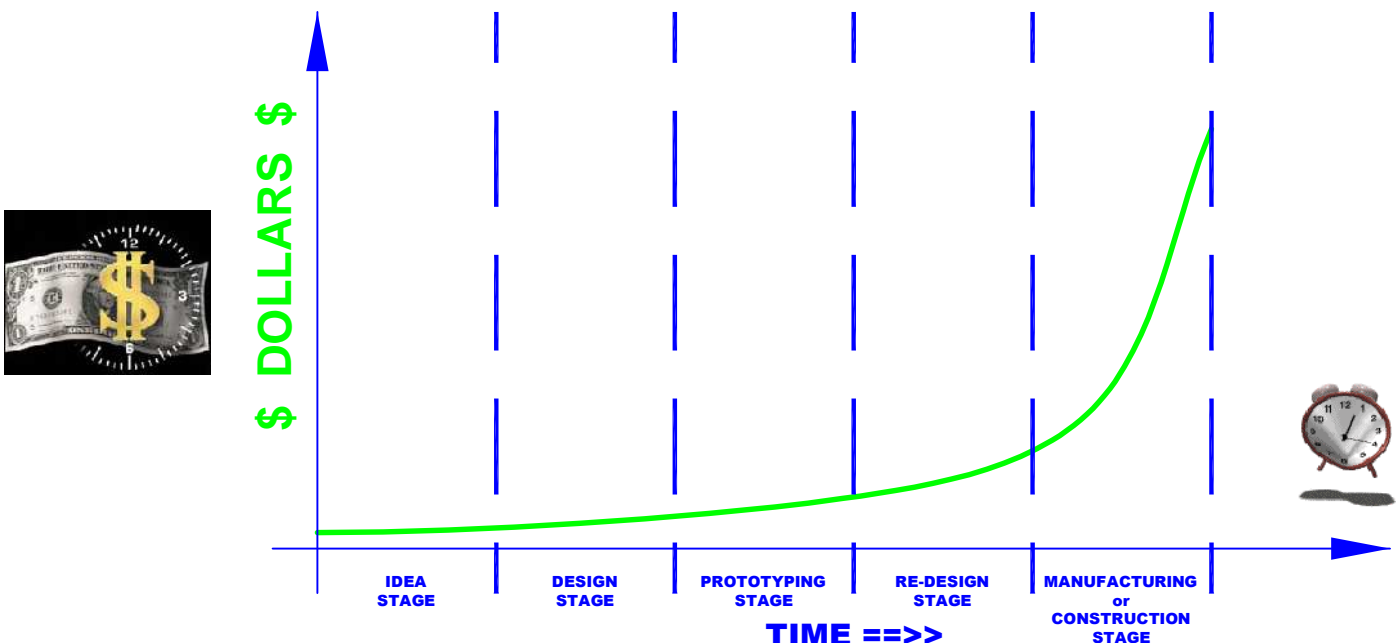
As we progress through a design project it is critical to eliminate errors during the design stage because of the exponentially increasing costs to correct an error after manufacturing or construction has been completed. Imagine not using a simple 5 minute design procedure in AutoCAD only to find that you have to correct an error in 100,000 parts that are worth \$10 each or tearing out \$100,000 worth of concrete in a large commercial building simply because associative dimensions were not used to check the building's size and locations. Unfortunately this still happens every day because designers have not become aware of all the quality control and modeling tools available to eliminate errors during the design process. Using 3D modelling is one such feature that allows a designer to create a very realistic, verifiable model long before the real product costs too much to correct problems not discovered by a lack of design.

Examples of AutoCAD features that will assist your quality control:

- Attributes extracted to a bill of materials program like Excel or Access can find errors in seconds instead of hours, weeks and months!!
- 3D modeling will reveal many errors not seen in a 2D model that is missing one third of the design data.
- Layers managed correctly will reveal misalignments and misfits that can be corrected cheaply.
- Layer State feature will allow rapid changeover of drawings for various trade needs.
- Associative dimensions in AutoCAD will reveal mistaken sizes and locations immediately PLUS correct themselves when you have to stretch or move an object.
- Rendering a 3D model will eliminate misunderstandings about the final appearance of a design.
- Using AutoCAD's shadow study feature will allow an architect to confirm instantly where shadows will occur before any construction begins.
- Xref modeling will ensure that a part or object is designed only once. Two copies with different revision levels can be dangerous in a design project!

Examples of Autodesk Inventor features that will assist your quality control:

- Assembly modeling of parts verifies fits and relationships constantly.
- Parametric dimensioning constraints allow rapid revisions, testing, verifying.
- Single part sources for drawings, assemblies, presentations.
- Adaptive technology ensures tightly defined relationships between parts that change.
- Assembly constraints provide intelligent relationships between associated parts.
- Creating a video of the assembly process takes only a few minutes and will reveal fit problems, teach repair technicians, assembly personnel or consumer marketing, instructions, assembly details.



Time Used Wisely

Because time moves relentlessly forward for all of us, EKHO's products such as training, training videos, EKHO Memory Strips, EKHO Tip Sheets and searchable linked PDF books are all designed to make a big difference in making very effective use of the limited time we all have. Below is some inspirational thought that should provoke some thinking and motivation that we all need from time to time. All of EKHO's training courses, software and products will save you a LOT of time you can choose to use wisely for yourself! *Elton K. Hammond* The EKHO Institute

If you don't have time to do it right, when will you find time to do it over? By Unknown

Until you value yourself, you will not value your time. Until you value your time, you will not do anything with it. By M. Scott Peck

Time is more valuable than money. You can get more money but you can't get more time By Jim Rohn

Remember that the mighty oak was once an acorn. By Unknown

Nothing is worth more than this day. By Mary Engelbriet

What did you do today?

Is anybody happier because you passed this way?

Does anyone remember that you spoke today?

The day is almost over, and its toiling time is through:

Is there anyone to utter now a kindly word of you?

Can you say tonight in parting with the day that's slipping fast,

That you helped a single person of the many that you passed?

Is a single heart rejoicing over what you did or said?

Does the one whose hopes were fading now with courage look ahead?

Did you waste the day or use it? Was it well or sorely spent?

Did you leave a trail of kindness, or a scar of discontent?

As you close you eyes in slumber, do you think that you can say:

You have earned one more tomorrow by what you did today?

By Someone unknown

Time will make you money, but money won't buy time. By James Taylor

Does thou love life? Then do not squander time; for that's the stuff life is made of. By Benjamin Franklin

If you don't like where you are, change it! You're not a tree. By Jim Rohn

Cherish your yesterdays, dream your tomorrows, live your todays. By Someone unknown

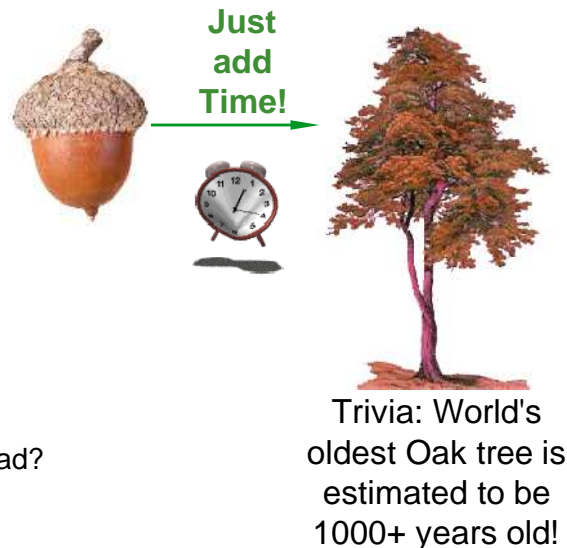
Time flies whether you're having fun or not. By Mary Engelbreit

A man should not fear death; he should fear never beginning to live By Marcus Aurelius (Roman Emperor)

Time is well used or not well used, it is never saved. By Bob Ellis (Australian writer)

This is the beginning of a new day. You have been given this day to use as you will. You can waste it or use it for good. What you do today is important because you are exchanging a day of your life for it. When tomorrow comes, this day will be gone forever; in its place is something that you have left behind . . . let it be something good. By Unknown

Dont cry because it's over. Smile because it happened. By Unknown



Trivia: World's oldest Oak tree is estimated to be 1000+ years old!



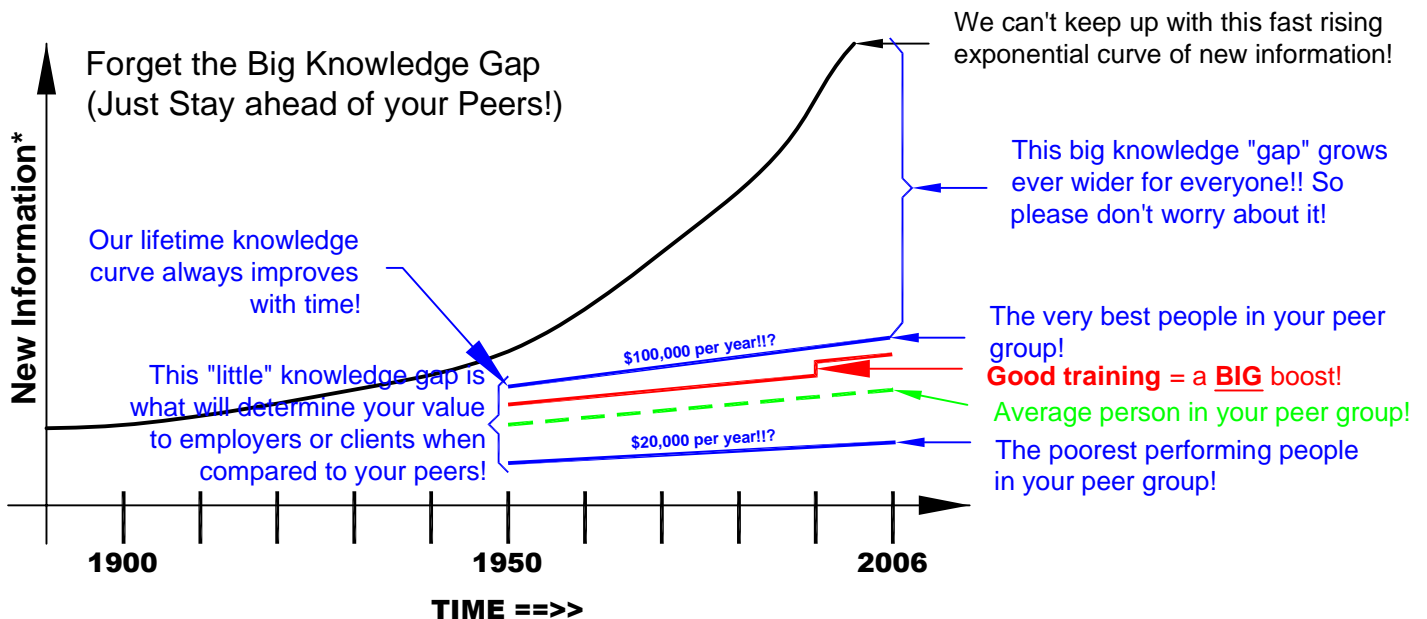
Time Flies!



Forget The Big Gap!

EASY TO BEAT YOUR PEERS!

Statistically speaking it will not be very difficult for you to get ahead of your peers, since **70 to 80%** of them will elect to **not take any good professional training**. EKHO's highly effective training should give you an average of a 2 to 10 year head start on your many self-teaching peers making you worth a lot more in the job market!! You can take control over this gap, so please give it lots of thought and planning to gain an advantage for yourself! Some software users are quite good at self-teaching while others have no hope with this approach. Even a highly motivated early adapter who thinks they can always teach themselves and save money on training can not keep up with it all. We have seen consistent large boosts in productivity with all levels of users regardless of learning style. In fact the self-teachers probably take away more from our courses than others because of this trait. So give yourself a power boost and sign up for good training. Ask lots of questions to ensure that the course is in fact going to be good for you with experienced, qualified instructors with a good track record and good curriculum that has strong proven results. So forget the big gap with the world and work on the "little" gap with your peers!



* New information is coming at us faster than ever via the Internet, books, magazines, new software, research, etc.

Your Employees Are Clueless!

by Christine Grech Wendin and PC Computing Business Labs December 1999
Taken from PC Computing Magazine - Dec. 1999 Issue

Your employees are Clueless!

They'll be the first to tell you so!!

More than half--54 percent--of the white-collar workers we surveyed reported that they don't have the technical skills they need to do their jobs. Think about that when the pilot on your next flight sits down in the cockpit. In reality, technical workers such as pilots tend to get the lion's share of training budgets. It's that vast range between the mail room and the corner office--from administrative assistants to sales reps and marketing managers--that get shortchanged in training.

Obviously, learning to click on the Reply button in an e-mail package is a far cry from learning to use e-mail efficiently and effectively. Market research departments that rely on all-purpose Web search engines require bigger staffs and longer hours to return the same results as departments better versed in Internet resources. Sales managers who agonize over Power Point slides waste time that could be spent making sales calls.

Smart employees eventually develop the skills they need--through trial and grope. But at what cost to your company's bottom line? When PC Computing Business Labs put workers who relied on Microsoft Excel through an Excel training course, their productivity jumped as much as 37 percent. On average, this frees up about 200 hours per employee each year--or more than \$5,000US a head.

It's curious that companies resist investing in training, given the obvious return on investment. Many managers feel they can't look beyond current-quarter results for any financial decision. Others believe that with the high employee turnover in today's marketplace, training ultimately helps the competition. But these attitudes affect both productivity and morale. As one employee at a large Internet company reported, "It seems like most bosses don't care how something is done or how many hours it takes, so long as it gets done."

Training used to be out of reach for most small businesses. But thanks to computer-based classes like those offered by CBT Systems and SmartPlanet, which is owned by the same company that publishes PC Computing, you can train employees for as little as \$50US per class. Since it's on the computer, training takes place during downtime--or after hours.

Providing the opportunity is only half the ticket. To reap the benefits of training, you have to be aggressive. One large technology company in our audit offered a generous \$2,000-per-employee education benefit. Yet the vast majority of workers didn't take advantage of it. Employers who encourage training--with merit pay, promotions, and other incentives--may be surprised by the results. Most of the employees in our audit said they'd attend training classes after hours. As one respondent reported, "The training I've done on my own time has more than doubled my work capacity."

Sharpen Your Saw!



SHARPEN YOUR SAW!

A man was sent out with a **dull saw** to cut down a large tree quickly! Upon being questioned after an hour about why it was taking so long to cut the tree down, he replied that the saw was dull. "**Why don't you sharpen it?**", he was asked. "**I don't have time because I'm in a hurry to cut down the tree!!**" **Good training is taking time to sharpen the dull saw!!** Many software features today can reduce the cost and time to do a task by **up to a 1000 to 1 ratio!** It is impossible to benefit from these highly productive features IF you are unaware of them or how to use them. During our 19+ years in the training business it has been truly enlightening to see how many long time (10+ yrs.) CAD users have not even heard of powerful time saving features because they feel so pressured to "get the job done quickly" or don't have time and curiosity to pursue new ideas and features.



NO TIME TO DO IT OVER?

If you don't have time to do it right the first time, when will you find time to do it a second time? Good training will teach you the right way to do the job so it does not have to be redone or can be redone very quickly. (e.g. AutoCAD's associative dimensions vs. non-associative and Layout plotting vs. Model Space plotting, Inventor's animation features, geometric constraints, etc..)



THREE COMPONENTS FOR DESIGN PRODUCTIVITY

- **Hardware** - computer, monitor, keyboard, mouse, etc.
- **Software** - AutoCAD, Inventor, Photoshop, etc.
- **Operator** - Designer, Architect, Engineer, Interior Designer, industrial designer, etc.

Weakest Link or Strongest Link?

It has always amazed me how employers will rush out to purchase great hardware and software like AutoCAD or Inventor and the latest computer and then dump it on an employee's desk to try learning it by themselves. Even some very large and well respected corporations have and continue to do this even today! Unfortunately we are all able to purchase the same excellent software and hardware if we choose, thus not allowing us to gain any advantage with these two items. The most important productivity ingredient in this trio by far is the OPERATOR! Yet close to 80% of software users are self taught instead of getting a serious productivity boost from professional training that is known to give a real advantage. If corporations and designers hope to gain a serious competitive advantage, how do they plan to do it with their most important link being left behind as the weakest link? Many of today's features in various CAD packages are capable of productivity gains from 2x to 1000x over traditional methods. You can NOT enjoy this improvement if you haven't even heard of the feature.

Stay Ahead of Your Colleagues!



DOES YOUR DOCTOR HAVE A UNIVERSITY DEGREE!

Was your family doctor self-taught? When did you last fly with a self-taught airline pilot? Do you want to drive on bridges designed by self-taught engineers? Many employers falsely think that they are going to send one person on our courses who will then return to train the rest of the office! This always results in major time loss and **exceptional dilution** of knowledge and experience. **Good training** is a highly sophisticated process that needs to be done by patient, experienced professionals with a very polished set of curriculum to maximize the learning results. Our highly successful training results have proven this for over 19 years now! EKHO does free training seminars on a monthly basis and includes the **EKHO Challenge**, a fun learning exercise that shows three different approaches to training; Teach yourself, Teach your Colleagues and Learn from a Professional. We allow 5 minutes for each of 3 similar exercises to be completed. Typical successful completions for the self taught and teach your colleagues is 0. Typical for the instructor led exercise is 80 to 100% success, giving an accurate representation of real life scenarios also. Professional training at EKHO will pay for itself many times over for many years to come. You get up to speed much quicker and stay at a higher level of performance than your untrained colleagues trying to do it by themselves.

MOTIVATION COUNTS!

Motivation is everything in the learning process, as with life in general. As an experienced instructor and employer, I would always prefer a struggling, but highly motivated student over an exceptionally bright student lacking in motivation or purpose. The motivated student will win out in the long term every time!! Simply a reflection of the way real everyday life works also! If you bring the motivation, we will get you up and running in AutoCAD or Inventor or whatever!

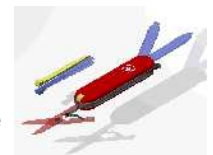


STAY AHEAD OF YOUR COLLEAGUES!

You should not worry about the infinite knowledge curve of new information that is flooding over us from many sources today like the Internet, newspapers, magazines, research, new software, etc. Not even the brightest and most motivated person can progress at this pace. You just have to worry about staying ahead of your peers. Your peer group has highly paid people and very poorly paid people, normally in proportion to their knowledge and skills acquired through all types of effective training. You will be worth a lot more money than others in your peer group if you have a lot more useful, applicable knowledge that produces more results faster than others. Staying ahead of the average person in your peer group is not that difficult because most people are too busy with their everyday lives to attend professional training.

GOOD DESIGN FLOWS FROM GOOD TRAINING!

Good design is just a lot of good planning with a LOT of careful thought to anticipate future problems and then communicating those thoughts clearly to everyone else on the production and design team. Using software like AutoCAD and Inventor allows a designer to be more creative, thoughtful and productive in getting out effective communications in the form of professional models and drawings that eliminate costly on the job mistakes. Designing in 3D for example gives a designer the opportunity to eliminate most of the traditional errors that occur with simple 2D models due to the lack of information, by letting the designer visualize and inspect their work before committing it to production. Remember CAD software is first and foremost a communication tool. Good designers **MUST** be good communicators.



Are You Very Wise or Just Wise?

- A fool never learns from their own mistakes.
- A wise person does learn from their own mistakes.
- **A VERY WISE person** learns from other people's mistakes!



Excellent training curriculum is a large accumulation of learning from **many** other people's mistakes!! EKHO's courses represent 19+ years of experience from thousands of design students, AutoCAD users, and many experienced instructors; allowing EKHO's students to get a rapid and **VERY WISE** start to using AutoCAD efficiently! It would not be unreasonable to expect a 2 to 10 year head start on your not so wise colleagues who avoid professional training. If you then apply this VERY WISE advantage to selling your productivity advantage, it should pay off in much higher earnings potential due to your skills advantage!!

DESIGN ERRORS COST, TRAINING PAYS!

Design errors cost very little to eliminate **IF caught at design time**. However, let a design error or omission creep into the actual construction of a multi-million dollar building or a production run of 100,000 parts and the cost to correct the problem can skyrocket. So using good design tools like 3D AutoCAD or Inventor can pay for itself many times over and the benefits of having well trained CAD designers who know how to do good quality control at design time can pay huge dividends for years.

MISTAKES ARE A PART OF THE LEARNING PROCESS

During the learning and training process it is vital that a student makes mistakes and gets feedback on how to correct the mistakes. Being afraid to make mistakes is a sure method of slowing the learning process for the rest of your life!! There are only 2 ways to avoid mistakes, **DO NOTHING** or **BE** impossibly **PERFECT!** I prefer to see a student make 5 mistakes in 5 minutes than sit and do nothing. They will now know 5 things that don't work and probably attempt number 6 will result in success and a lot of gratification **PLUS** truly remembering how a new tool really works!! Fear of experimenting or failing can often be the biggest handicap to learning for a novice.

FUN LEARNING DEMO!

For anyone or any group that wants to see a fun and powerful effective demo created by The EKHO Institute to demonstrate the value of professional training vs. learning by yourself just phone us to set up a **FREE test drive session with the exciting EKHO Challenge** !! This short fun live demonstration with real people shows the results from 3 learning scenarios; Teach yourself, Teach one to teach others and Learn from a Pro. Fun and enlightening!

SEE, HEAR, DO and REMEMBER!

An old Confucius saying tells us that we remember 10% of what we see, 10% of what we hear, but 80% of what we see, hear and do. That is why EKHO's hands on training has been so effective over the past 19 years, because we provide curriculum and training methods to allow everyone to experience (e.g. **DO**) all the techniques for themselves after seeing and hearing a short, effective demonstration on what students are expected to learn.

Little Things Count Too!

EKHO MENU STRIPS 6302 Emerald Lines Dr. Ottawa, On. Canada K4P 1M4 (813) 822-8935 www.ekho.com	COMMAND LINE ONLY: ATTEXT CUILOAD BATTORDER FILTER BLOCKICON GROUP CUILOAD MVSETUP WBLOCK	BEGINNER'S TIPS: Draw objects 1:1, then Plot to Scale. Shift + Grip to select multiple grips. Shift + Pick to de-select objects. Ctrl + Pick Cycles between objects.	Shift key + TRIM becomes EXTEND. Shift key + EXTEND becomes TRIM. TRIM & EXTEND now work on MLINEs. TRIM now works on HATCH objects. AREA command now works on HATCH objects.
	ACAD 2007 Autodesk Inc. © EKHO INC. © WWW.EKHG.COM (813) 822-8935 ACAD2008_INVENTOR10.DWG	SELECTION TOOLS FILTER PICKBOX WINDOW CROSSING CPOLYGON	GROUP LAST PREVIOUS ALL SELECT
	HELP FLIP SCREEN TOGGLE RUN. OSNAP TOGGLE TABLET TOGGLE ISOPLANES		



We have been producing and selling EKHO Strips for about 19 years now. These little keyboard menu strips for various software packages like Word, Excel, Windows, AutoCAD, etc. each have approximately 200 highly useful and productive tips, tricks and shortcuts to help users out while sitting in front of their keyboards. I have always used these myself but need some help to remember many of them. When used regularly these keyboard shortcuts can result in large accumulated time savings over the course of a month and years. Each keyboard shortcut used may only save 5 to 10 seconds over the mouse, BUT when used thousands of times per month it really adds up to big time savings. See our comparison chart about why this happens!! In recent years newly trained Windows and computer users have come to think that the mouse is the only input device. It is invaluable in many cases, but it is NOT always the most efficient or quickest for all tasks.

During numerous trade show promotions for our EKHO Strips, where we have held little fun quizzes to test experienced computer users knowledge of these basic shortcuts and functions we have been truly amazed to discover the incredibly low level of knowledge on these great time savers. This seems to indicate that most people have a lot of room for productivity gains by using some very basic tools that are an inherent part of all software. Our current 10 titles of EKHO Strips represent approximately 2000 shortcuts and productivity tips that have very large potential **IF** they are put to work!

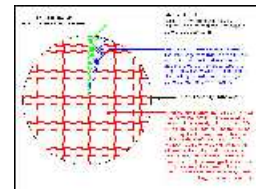
When EKHO Strips and the information they provide are used as intended it would not be unreasonable to enjoy time savings of as much as 144 hours per year and see a payback of 360x the cost of the EKHO Strips!! Knowledge is powerful **IF** put to use!!

WHAT WE DON'T KNOW THAT WE DON'T KNOW!

For many years I used to be quite mystified at why almost everyone with even a small amount of experience overstates their skill level with software like AutoCAD and operating systems like Windows. After much pondering and experience I have come to realize it is not due to any intention to mislead, but comes from the fact that most people honestly do not know what they don't know. If we divide all the knowledge in the world into three categories:

- **What we Know** (our job, our hobby, our high school math, etc.)
- **What we Know we Don't Know** (other professions, hobbies we don't do, etc.)
- **What we Don't Know that we Don't Know** (we are all oblivious to most of the world's knowledge! :-))

I have come to realize it is impossible for any of us to assess ourselves against this third category and thus people don't realize what their deficiencies are with today's complex and dizzying array of software features. Thus comes the honest overstatement of people's skills that begins to uncover itself as we proceed through one of our many highly polished training classes.



The EKHO Challenge Story

The EKHO Challenge is a fun demonstration for beginners using three, 5 minute time limited, simple AutoCAD exercises to challenge your learning skills and illustrate the benefits of professional training at The EKHO Institute over time consuming self teaching of AutoCAD!!

Demonstration of the Value of Instructor Led Training

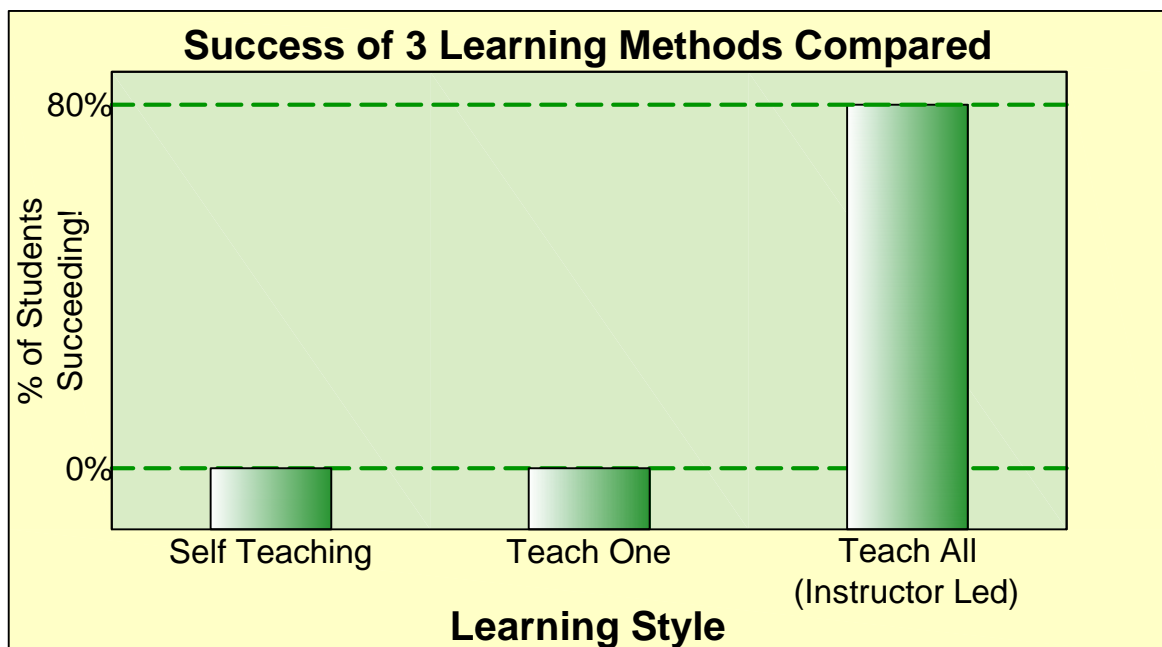
The EKHO Institute is proud to announce a new seminar marketing tool created by Elton Hammond, a professional engineer and instructor with over 19 years of professional instructor training. Autodesk Training Centers can use this tool to show the value of professional instructor-led training in a free or low cost seminar to true beginners who are evaluating whether to take a class at an ATC or teach themselves. With the use of the self extracting zip file, trainers will be able to guide attendees through three sets of exercises. Through the progress they make with the help of an instructor, they learn about the benefits of an instructor-led training class. Autodesk Training Centers can use EKHO's free drawing, consisting of three separate timed 5 minute exercises:

- Test 1 **Self-Taught Test** - Students attempt a fun, simple ARC exercise with almost no instructions at all.
- Test 2 **Instructor Teaches One Test** - Instructor teaches one person from the group on a simple TRIM exercise who then goes and teaches the others.
- Test 3 **Instructor Teaches All Test** - Instructor teaches all attendees on a simple, fun ELLIPSE exercise with coaching and assistance if requested.

With the substantial benefit of professional instructor guidance, novice attendees will typically get outstanding results on Test 3 only, proving a point about how Instructor led training will improve results and save a lot of time:

- Test 1 - **Typically 0 Successes** for true novices.
- Test 2 - **Typically 0 successes** for true novices.
- Test 3 - **Typically 80 to 100% Success!!**

Book your session at EKHO to try out your success story demo on Instructor training!



"SELF TAUGHT" - TEST 1

In this timed 5 minute test you are going to see how much you can accomplish by teaching yourself to complete the task with no instructor directions, simulating what happens in the work place for most AutoCAD users.

Many AutoCAD users are self-taught only providing low output. We will tell you when to start and stop, allowing 5 minutes to complete the task.

We will provide a free **EKHO Memory Strip** to everyone who completes the task correctly in the allotted time.

You may help each other as much as you wish.

Type in the "VIEW" command to "Set Current" a view called "ARC_EXERCISE".

Draw Toolbar

A ARC

1. DRAW a three point "ARC" sequentially through the 3 points labelled 1, 2, 3.

2. DRAW two "ARC's" with Start, End, Radius, using the 2 points,

- start pt. S1, end point E1, with a Radius of 4 units.
- start pt. S2, end point E2, with a Radius of 5 units.

TIPS:

1. Arcs are drawn counter-clockwise. So watch the order you select your points, to activate varied options for the "ARC" command such as:

- Start point
- End point
- Second point
- End point

(+) CCW

Re-create:
This exercise teaches you to partially re-create a shape shown to the right here.

"INSTRUCTOR TEACHES ONE" - TEST 2

In this timed 5 minute test you are going to see how much you can accomplish when the instructor teaches one person and that person teaches the next person, simulating what happens in the work place for many AutoCAD users.

Too many AutoCAD users are self-taught only. We will tell you when to start and stop, allowing 5 minutes to complete the task.

We will provide a free **EKHO Memory Strip** to everyone who completes the task correctly in the allotted time.

The designated "student teacher" may help everyone.

Type in the "VIEW" command to "Set Current" a view called "TRIM_EXERCISE".

Modify Toolbar

TR TRIM

1. Use the "TRIM" arcs, circles, lines, curves, etc. to another "cutting edge".

2. TIP: Use the "Fence" selection tool to "TRIM" multiple lines at once.

3. Press "Enter" after selecting.

4. Use SHIFT to toggle TRIM command to become an EXTEND command.

1. "TRIM" all of the red walls protruding past the green outer walls (cutting edge).

2. "TRIM" out the door opening for each room. "ERASE" the temporary yellow u-shaped lines.

3. "TRIM" the green radial lines outside of the patio's "cutting edge" blue circle.

Diagram labels: Sidewalk, PATIO, LIVING ROOM, KITCHEN, BEDROOM, B.R., B.R.

"INSTRUCTOR TEACHES ALL" - TEST 3

In this timed 5 minute test you are going to find out how much you can accomplish by watching the instructor show you how to complete the task, simulating what happens when you take a course taught professionally at The EKHO Institute.

Not enough AutoCAD users are taught professionally. We will tell you when to start and stop, allowing 5 minutes to complete the task.

We will provide a free **EKHO Memory Strip** to everyone who completes the task correctly in the allotted time.

The instructor will help anyone who requests assistance.

Type in the "VIEW" command to "Set Current" a view called "ELLIPSE_EXERCISE".

Draw Toolbar

E ELLIPSE

1. Draw an "ELLIPSE" with axis endpoint at 1A and 2nd axis endpoint at 1B, height of 1C.

2. Draw an "ELLIPSE" with axis endpoint at 2A and 2nd axis endpoint at 2B, height at 2C.

3. Draw an "ELLIPSE" - Arc window over the front entry doorway, (180 degree arc).

4. "ERASE" the numbered dots when finished.

Diagram labels: other axis, Axis endpoint 1, Axis endpoint 2, Start Angle 180, End Angle 180, ERASE Arc icon, ELLIPSE icon.

TARGET AUDIENCE:
Potential new students for basic AutoCAD training.

OBJECTIVES:

To compare the performance results of three common AutoCAD learning methods.

TEST 1 _____ (Number of successful completions)

TEST 2 _____ (Number of successful completions)

TEST 3 _____ (Number of successful completions)

A fun demonstration to help illustrate the value of professional training compared to the much less successful or slower method of self-teaching.



DWG TITLE		The EKHO Challenge Drawing!	
CLIENT: The EKHO Institute	0	REV.#/0	DATE: 2006/11/10
DWN BY: EKH	DATE: 2006/11/10	REVISED BY: EKH	DATE: 2006/11/10
CHKD BY: EKH	DATE: 2006/11/10	DWG NO: WELCOME	
Copyright 2005 by Elise K. Hemming, Eng. AA1			
No copies without written permission from The EKHO Institute			
SCALE: 1:1	SHEET #0 OF 781	PROJECT: EH20061110	
DESIGNER: EKH	PROJECT: EH20061110		DISK: FIREWIRE SERVER

Elton Hammond - Engineer & Author

EDUCATION:

Elton Keith Hammond's formal education consists of a B.Sc. (Honours) in Mechanical Engineering from the University of Manitoba. Many years of design experience provided an invaluable education about problem solving and creative thinking. Many courses in Train the Trainer, AutoCAD, Inventor, Law, Photography, Design and other software have been taken over the years and combined with extensive hands-on design experience that has been the best teacher.

AUTHORING:

- Dozens of AutoCAD training manuals for classroom and videos over the past 19+ years.
- Thousands of high quality Exercise Drawings for class & videos.
- EKHO keyboard Menu Strips provide shortcuts for 19+ years.
- EKHO Tip Sheets over the past 19 years to aid your memory.
- EKHO Quizzes at www.ekhovideos.com for instant feedback!
- EKHO Training Videos (8 full productions to date)
- EKHO web sites (www.ekhovideos.com, www.ekho.com).



TRAINING:

- 19+ years of classroom training experience for Professional adults.
- Extensive training video production experience.
- Produced EKHO School Management Scheduling Software.
- Autodesk Approved Instructor for ACAD 2006 and 2007.
- 14 Autodesk Awards for training excellence!



EKHO Manor - Elton's 3D Project!

ENGINEERING:

Many mechanical, electrical, acoustic engineering and architectural projects, most of which were designed entirely with AutoCAD.

PERSONAL PROJECTS:

Designed and built all aspects of EKHO Manor with 3D AutoCAD and 3D Studio.

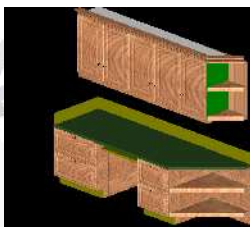
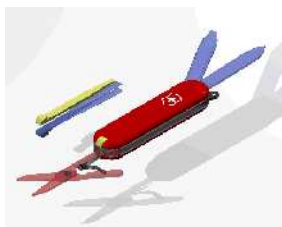
- 5800 square foot house designed in 3D with AutoCAD and 3D Studio.
- All Brick Gazebo / Pool House designed with 3D AutoCAD.
- Interior features like custom cabinets, fireplace, library.
- All Brick Garden Shed designed in 3D.
- All Brick Gate Posts.



Elton Keith Hammond P.Eng.



EKHO Manor Gazebo - Photo by EKH.



Amazing AutoCAD images with Rendering by EKH using 3D models designed by Elton Hammond!!

Elton Hammond - AAI*



INSTRUCTOR CERTIFICATION and CREDENTIALS

- We have full *Autodesk Approved Instructor (**AAI**) status at EKHO in the latest version. (Currently AutoCAD 2007) These rigorous **Autodesk Instructor-only** exams require a minimum pass mark of 86% and are your assurance by Autodesk of minimum knowledge by the people who teach you. We always take pride in greatly exceeding minimum standards!
- We have also attended Train the Trainer Courses over the years to give us an appreciation of adult training techniques implemented in all of our training courses.
- EKHO Manor and all the out buildings were all designed and built by Elton Hammond using 3D AutoCAD. EKHO Manor is built from polystyrene forms filled with concrete and re-bar.
- We also have over 32 years of detailed design experience, the last 20+ years with AutoCAD.
- 19+ years of successful training delivery is the best credential for our student's benefit.
- We also have 19 to 32+ years of experience in producing:
 1. EKHO's searchable and linked PDF books.
 2. EKHO's highly interactive video tutorials.
 3. EKHO's own proprietary continuously refined exercises.
 4. EKHO's automated quizzes with feedback and tips.
 5. Real life Engineering and Architectural design projects.

EKHO Manor was designed and built by Elton Hammond using polystyrene forms filled with concrete and re-bar. All design drawings were completed with 3D AutoCAD.



EKHO Tip Sheets provide help!



One of 14 Autodesk Awards for EKHO



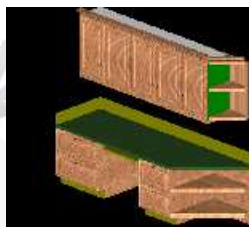
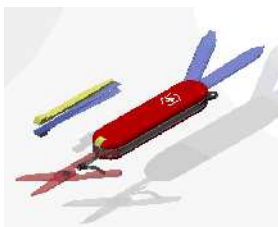
Argisol polystyrene block used to build EKHO Manor.



EKHO Manor - Elton's 3D Project!



EKHO Manor Gazebo - Photo by EKH.



AutoCAD images with Rendering by EKH using 3D models designed by Elton Hammond!!

EKHO Student Renderings

While we have seen many exceptional 3D AutoCAD projects completed by EKHO Students over the past many years, here are just a few of the memorable ones that we still have on file. Truly amazing results for the very short time spent on them plus the rendering limitations of AutoCAD!

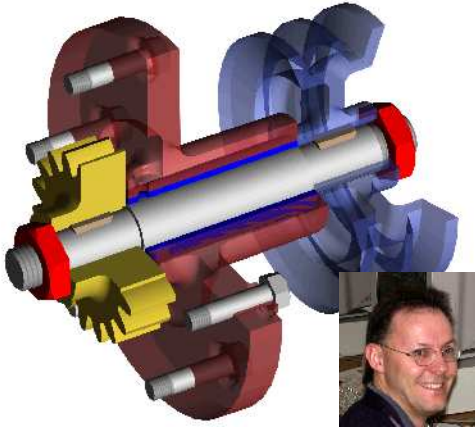
Michel Asboth



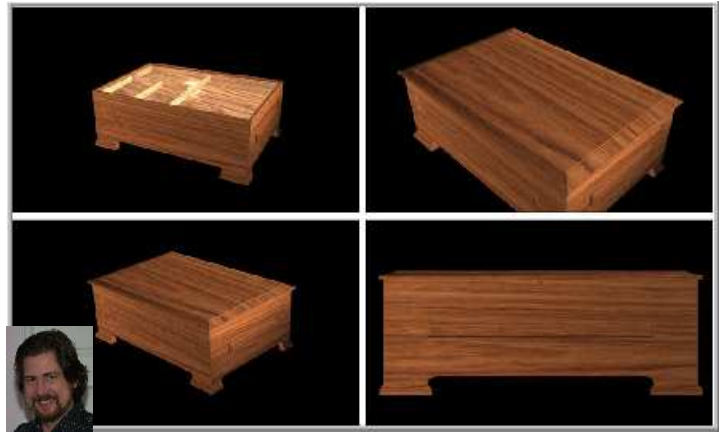
Susan Laurie Bourque



Yvon Laferriere



Neill Graves



Mel Boyle



George Pattantyus



Mel Boyle



Jaime Betancur

