

How to Create Luck

*Combined Application of a
Profound Quality Improvement Model and Sacred Geometry*



Presented 25 June 2009 by
Diane G. Kulisek



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How to Create Luck

- Topics to be covered:
 - What is "Luck"?
 - The Plan-Do-Study-Act Model
 - Sacred Geometry
 - A New Model for Continual Quality Improvement
 - The Luck Creation Journal
 - Open Discussion

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■ What is "Luck"?



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■ What is "Luck"? (continued)



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■ What is "Luck"? " (continued)



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■ What is "Luck"? " (continued)



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■ What is "Luck"? " (continued)

- **"Luck is what happens when preparation meets opportunity."**

- Seneca, first century Roman philosopher

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■ What is "Luck"? (continued)

- **"Luck is not an accident."**
– Diane Kulisek
- **"Quality is never an accident; it is always the result of intelligent effort."**
– John Ruskin, English Writer, 1819-1900

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- What is "Luck"? (continued)
 - "Feeling lucky is not an act, it is a habit."
– Diane Kulisek
 - "We are what we repeatedly do. Excellence, then, is not an act, but a habit."
– Aristotle 384 BC-322 BC

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**Sometimes math really does matter.
Did he fire six shots, or only five?**

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■ The Plan-Do-Study-Act Model

Also known as the Plan-Do-Check-Act (PDCA), Deming or Shewart Model

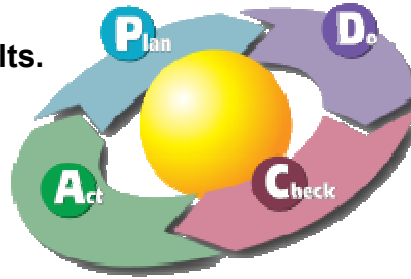
- Plan to Do something.
- Do it.
- Study (or Check) results.
- Act based on results.



Shewart



Deming



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■ The Plan-Do-Study-Act Model (continued)



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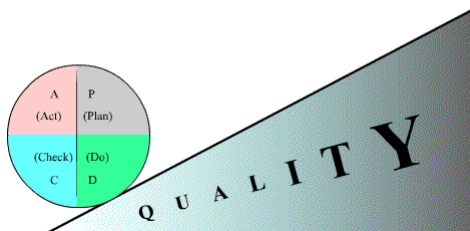


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■ The Plan-Do-Study-Act Model (continued)

The Deming (PDCA) Cycle



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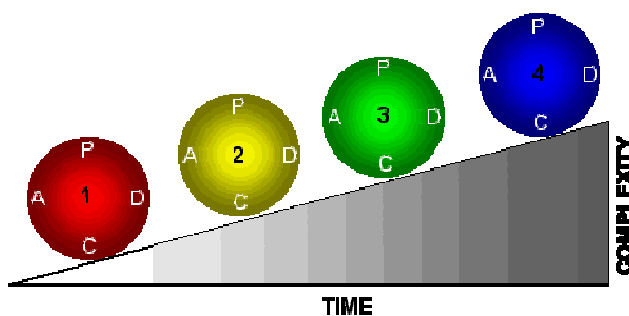


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■ The Plan-Do-Study-Act Model (continued)

A variation on the Deming Cycle:



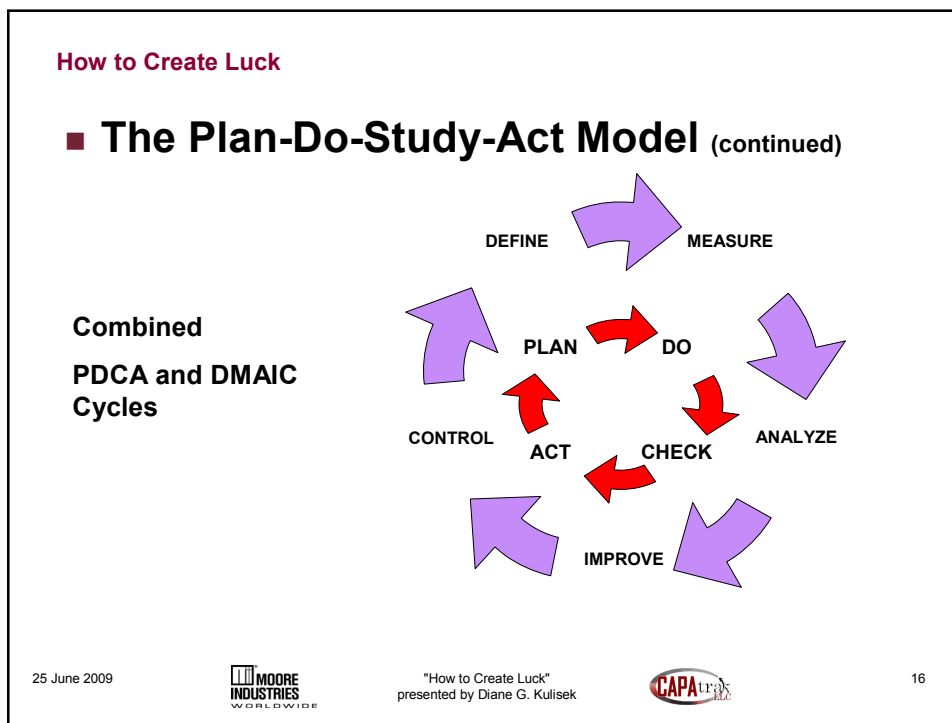
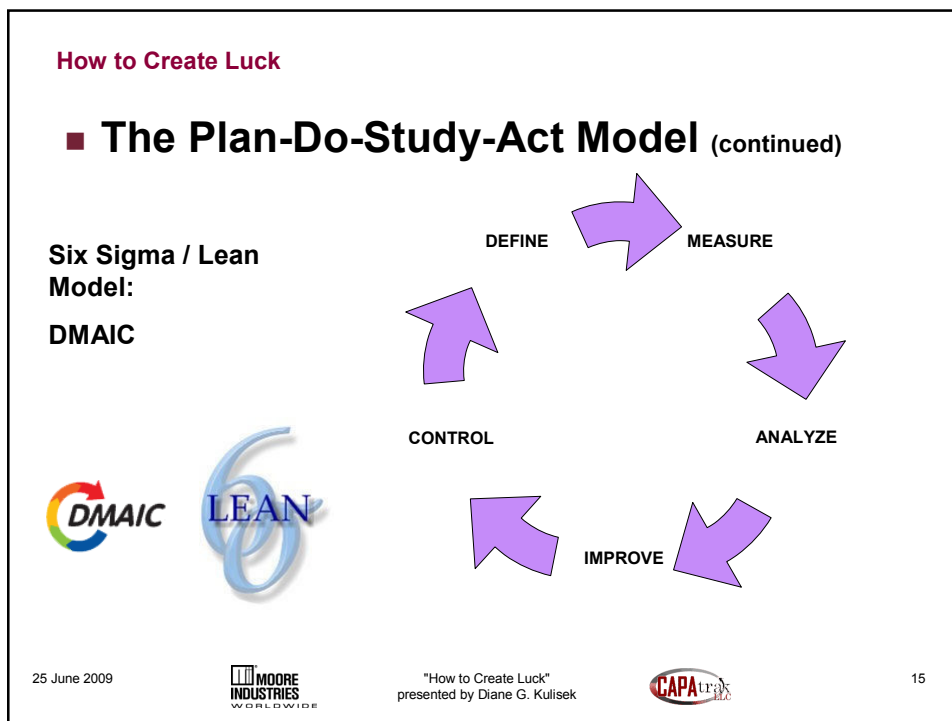
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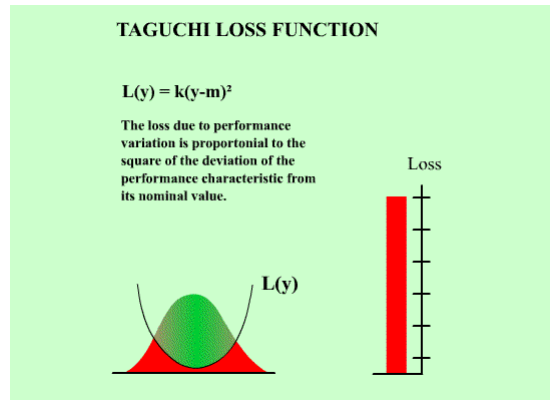


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■ The Plan-Do-Study-Act Model (continued)



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■ The Plan-Do-Study-Act Model (continued)

● Selection of Objectives

S SPECIFIC
M MEASURABLE
A ATTAINABLE
R RELEVANT
T TIME-CONSTRAINED

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■ **Sacred Geometry – as defined by Wikipedia:**

● **Contemporary Usage:**

- **mathematical order to the intrinsic nature of the universe.**
- **geometric and mathematical patterns arising directly from natural principles.**

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■ **Sacred Geometry (continued)**

The most prevalent traditional 'sacred' geometric forms:

- **Sine Wave**
- **Sphere**
- **Vesica Piscis (Mandorla)**
- **Platonic Solids** (polyhedrons: tetrahedron/pyramid, hexahedron/cube, octahedron, dodecahedron, icosahedron and/or merkaba)
- **Torus (Donut or Ring)**
- **Tesseract (Hypercube or 4-Dimensional Cube)**
- **Merkaba (2 oppositely oriented and interpenetrating Tetrahedrons).**
- **Golden Spiral (Fibonacci Spiral)**

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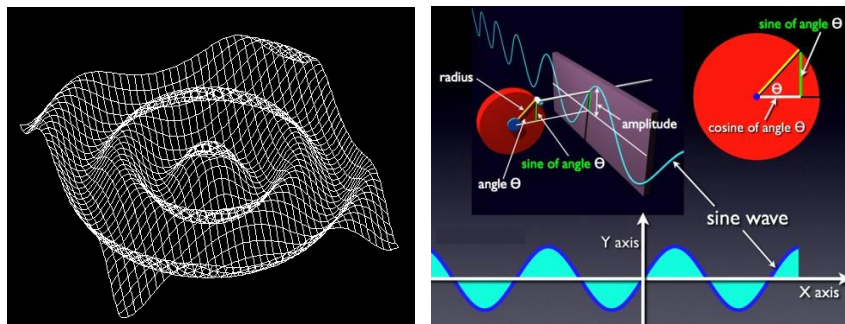
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■ Sacred Geometry (continued)



SINE WAVE

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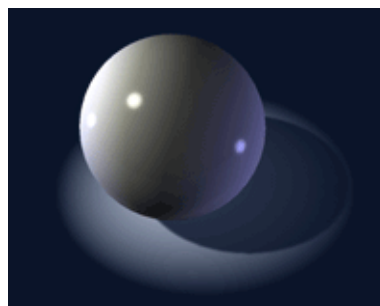
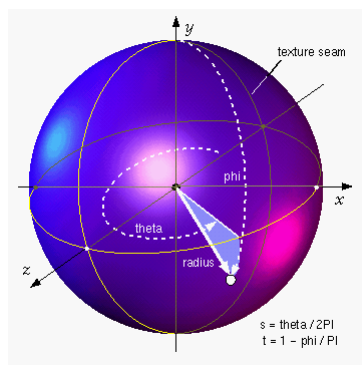
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■ Sacred Geometry (continued)



SPHERE

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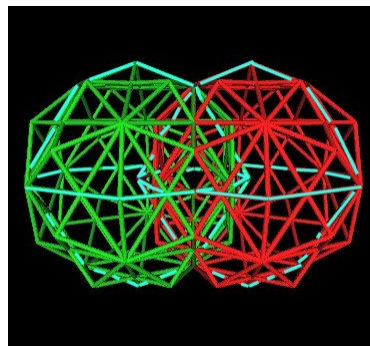
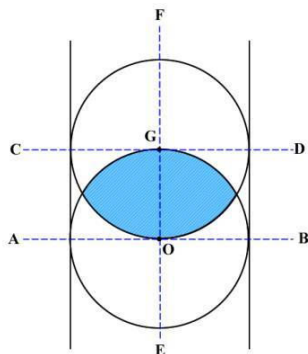
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■ Sacred Geometry (continued)



VESICA PISCIS (BLADDER OF A FISH) or
MANDORLA (ALMOND)

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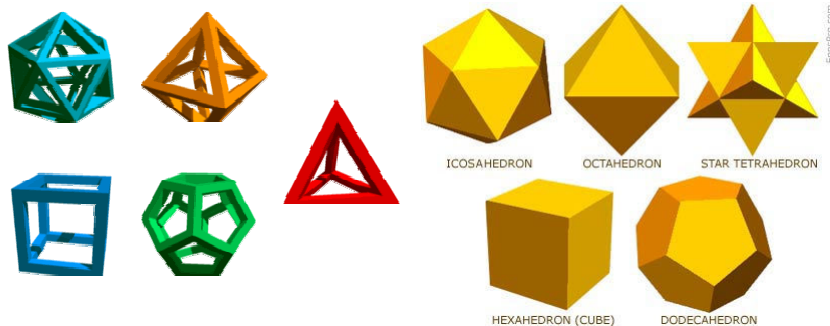
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■ Sacred Geometry (continued)



PLATONIC SOLIDS

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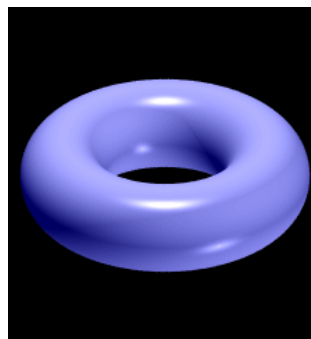
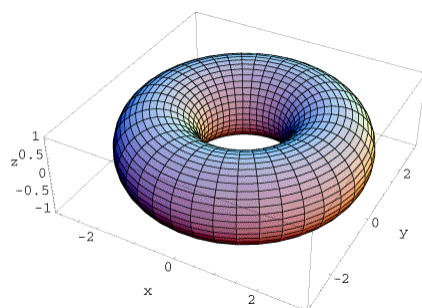
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■ Sacred Geometry (continued)



TORUS (RING)

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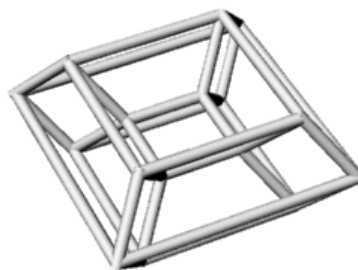
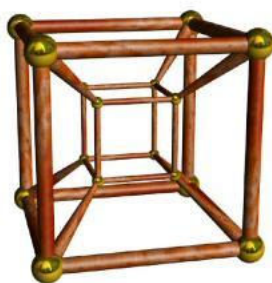
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■ Sacred Geometry (continued)



TESSERACT
(HYPERCUBE)

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■ Sacred Geometry (continued)



MERKABA

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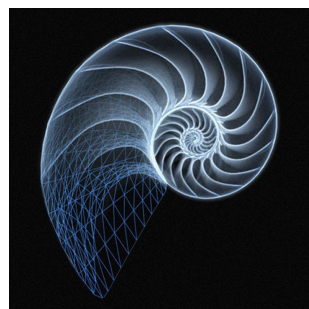
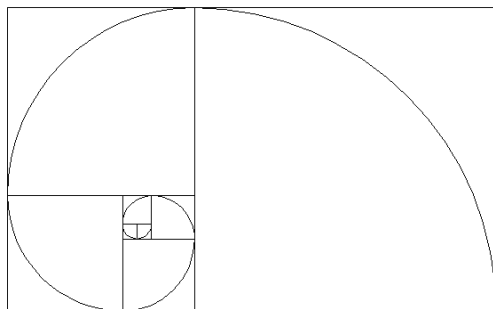
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■ Sacred Geometry (continued)



GOLDEN SPIRAL
(FIBONACCI SPIRAL)

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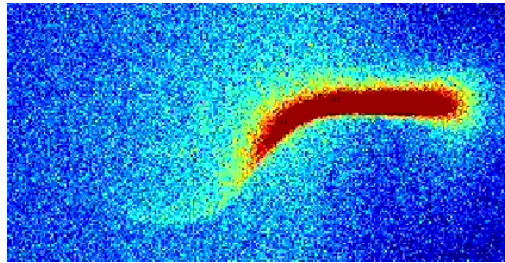
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■ Sacred Geometry (continued)



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(FIBONACCI SPIRAL)

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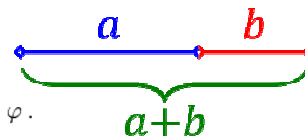
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■ Sacred Geometry (continued)

● The Golden Ratio:

- Ratio of the sum of the quantities to the larger one equals the ratio of the larger one to the smaller.

$$\frac{a+b}{a} = \frac{a}{b} = \varphi$$



- Often denoted by the Greek letter phi, usually lower case (φ).

$a+b$ is to a as a is to b

- An irrational mathematical constant, approximately 1.6180339887.

$$\varphi = \frac{1 + \sqrt{5}}{2} \approx 1.6180339887 \dots$$

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■ **Sacred Geometry** (continued)

● **Fibonacci Sequence/Numbers:**

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89,

$$F_n = F_{n-1} + F_{n-2},$$

with seed values:

$$F_0 = 0 \quad \text{and} \quad F_1 = 1.$$

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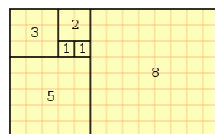
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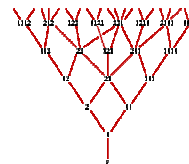
■ **Sacred Geometry** (continued)

● **A Fibonacci spiral**

- not a true Golden Spiral, but a good approximation
- every quarter turn of a Fibonacci spiral gets wider (or narrower) by ratios of consecutive terms in the Fibonacci sequence
- Turns ratios are very close to the golden ratio (ϕ)



GOLDEN SPIRAL
(approximated by the
FIBONACCI SPIRAL)



YOUNG-FIBONACCI LATTICE
(Combinatorial Arguments)

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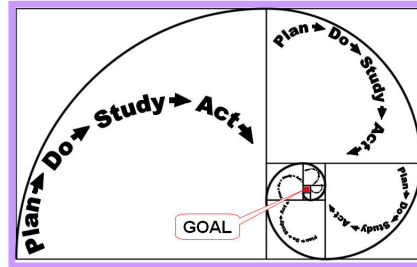
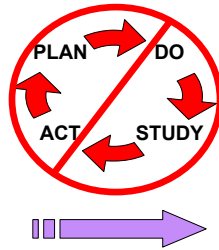


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■ A New Model for Continual Quality Improvement

- As an improvement model, the spiral must swirl inward toward a goal (ala Process Control) instead of outward toward infinity (ala Deming's explanation of process tampering: "Off to the Milky Way we go!").



- This may also be viewed as a model for bringing order to chaos, standardizing or reducing variation (ala Taguchi).

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■ A New Model for Continual Quality Improvement (continued)

- Biggest obstacles to success:
 - Fear of failure
 - Ignorance
- Biggest contributors to success and, therefore, essential elements of Luck:
 - Courage
 - Wisdom

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- A New Model for Continual Quality Improvement (continued)

- Eight (8) Steps

1. Plan
2. Do
3. Study
4. Act
5. Derive Wisdom from Knowledge Gained
6. Derive Courage from Experience Gained
7. Apply Quantum Leverage
using Courage and Wisdom
8. Repeat Steps 1 thru 7
at a Higher Level of Impact and Precision

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- A New Model for Continual Quality Improvement (continued)

- Step-by-Step Explanation

- **1. Plan:** Plan to be lucky. Plan to succeed. Plan to be ready when opportunity knocks. Figure out what you want. Establish a goal. Visualize success. Pick something, somewhere, someone, somehow to be.
- **2. Do:** Try. Do something. Try something. Be bold. Overcome inertia. Create experience. You can experience success or failure, but the most valuable experience is often the result of failure. Experience is what you get when you don't get what you wanted. Great experience is the result of great failures.

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- A New Model for Continual Quality Improvement (continued)
 - Step-by-Step Explanation
 - **3. Study:** Learn. Understand. Collect information. Turn it into knowledge. Check your actual results against your expected results. Learn what worked and what did not so you can either repeat it or avoid repeating it. The most fundamental weapon against waste is knowledge.
 - **4. Act:** Take action. Try again. Do something else. Overcome inertia again. Never give up. Never quit. Never surrender. Continue. Persist. Resolve to keep trying, despite the likelihood of new failures. Continue after making adjustments based on what you have learned. If you fail, consider this Rocky Balboa quote: "It ain't about how hard you hit. It's about how hard you can get hit and keep moving forward."

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- A New Model for Continual Quality Improvement (continued)
 - Step-by-Step Explanation
 - **5. Derive Wisdom from Knowledge Gained.** Combine knowledge from step three with experience from step two to get wisdom, which can take you to the next level of effort with a better chance for success.
 - **6. Derive Courage from Experience Gained.** Combine experience from step two with the resolve required for action in step four to get courage, which can also take you to the next level of effort with a better chance for success.

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- A New Model for Continual Quality Improvement (continued)
 - Step-by-Step Explanation
 - 7. Apply Quantum Leverage using Courage and Wisdom. Combine wisdom with courage from steps five and six and you have the two most fundamental elements for improved chances of success; in fact a significantly higher likelihood of success. The odds are now stacked much better in your favor.
 - 8. Repeat Steps 1 thru 7 at a Higher Level of Impact and Precision. Repeat steps one through seven as often as necessary to achieve success.

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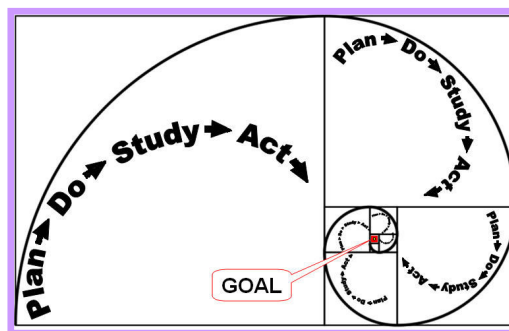
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- A New Model for Continual Quality Improvement (continued)
 - 1. (0) Plan
 - 2. (1) Do
 - 3. (1) Study
 - 4. (2) Act
 - 5. (3) Derive Wisdom from Knowledge Gained
 - 6. (5) Derive Courage from Experience Gained
 - 7. (8) Apply Quantum Leverage using Courage and Wisdom
 - 8. (13) Repeat Steps 1 thru 7 at a Higher Level of Impact and Precision



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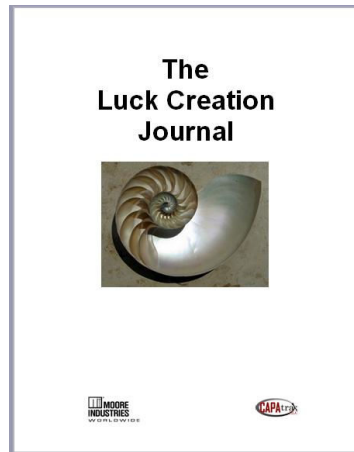
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■ A Gift: The Luck Creation Journal



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■ In closing:

- "Success is simply a matter of luck. Ask any failure."
- Earl Wilson, former Red Sox pitcher
- "The greatest thing about tomorrow is, I will be better than I am today. And that's how I look at my life. I will be better as a golfer, I will be better as a person, I will be better as a father, I will be a better husband, I will be better as a friend. That's the beauty of tomorrow. There is no such thing as a setback. The lessons I learn today I will apply tomorrow, and I will be better."
- Tiger Woods, Champion Golfer

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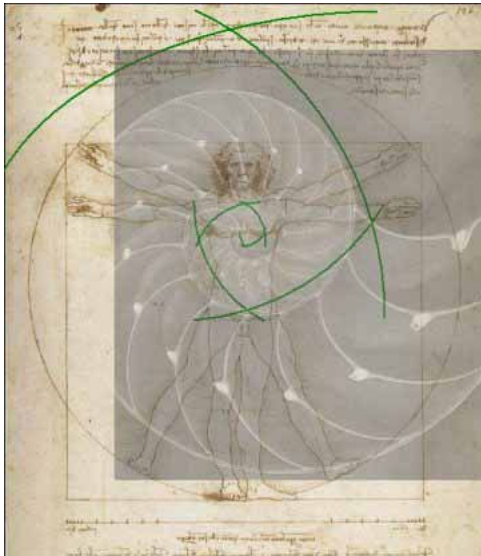
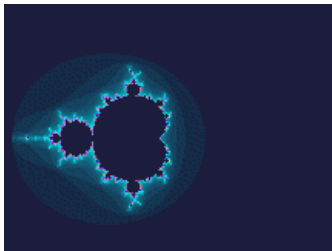
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THANK YOU!
Can we talk?



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