

E-CHP is the next generation error reduction process that results in increased safety, quality, effectiveness, efficiency and production

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- Over 25 yrs. of nuclear experience
- Cumulative over 20 yrs. of non-nuclear industrial experience
- Specialties in:
 - Human performance integration
 - Root Cause / Catastrophic Failure Analysis
 - Procedures / Programs / Processes
- Conducted over 40 successful integration strategies in:
 - Heavy Industry / Chemical / Metals
 - Nuclear / Traditional Generation / Transmission / Distribution
 - Construction
 - Department of Energy
- Recognized contributor to reduction of fatalities and serious injuries
- What have you done for me lately?
 - Featured speaker at NSC Campbell Leadership Institute
 - Developed IEEE Root Cause Standard
 - Provided OSHA with standard question list for significant injuries



My Goal Today

- Take about an hour to inform and intrigue you
- Provide you with a few nuggets

Is it REASONABLE to Believe?



E-CHP is a System



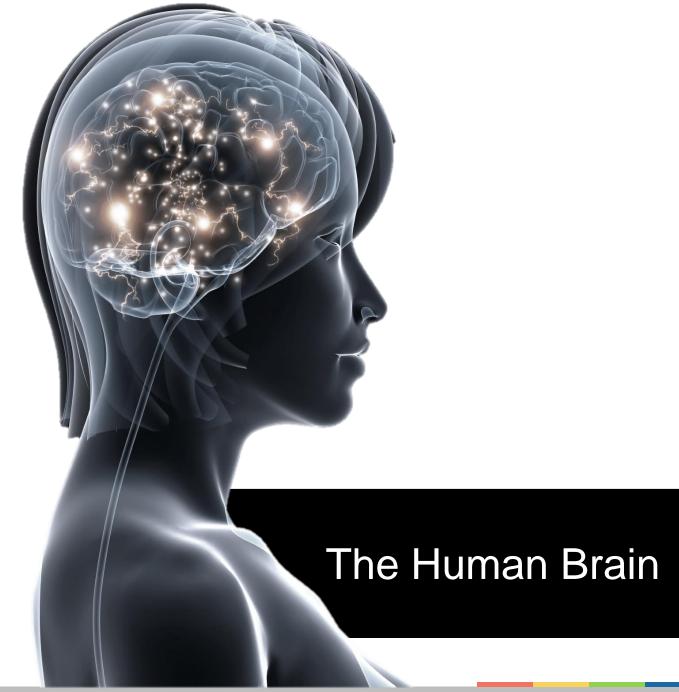
E-CHP is an interdependent system where individuals being aware of and managing their personality tendencies interact with people, programs, processes, work environment, organization and equipment



Guiding Tenets

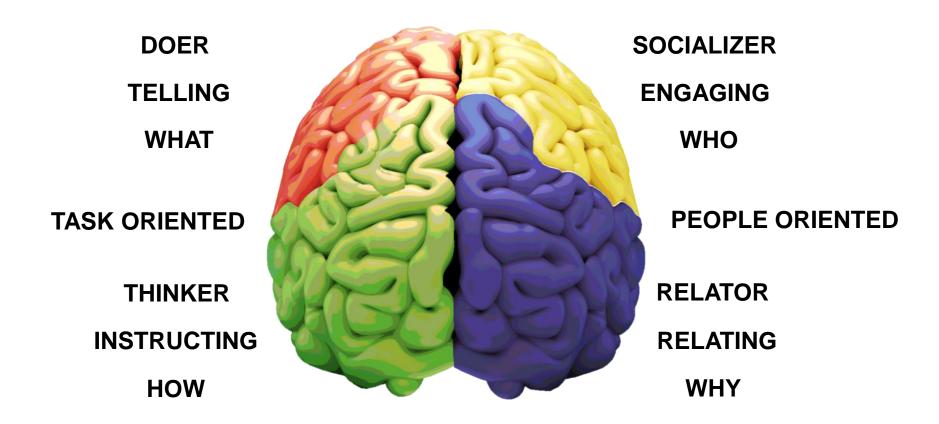
- Performance is based on awareness, reinforcement, and self-motivation
- Recognition that people are fallible and even the best will make mistakes
- Individuals will instinctively react within predictable personality tendencies
- Error traps are predictable and preventable
- Organizational values influence individual behaviors
- Events can be avoided by understanding causes and applying lessons learned







ACTION ORIENTED - FASTER PACED



INFORMATION ORIENTED - NEEDS TIME TO PROCESS



My Strengths & Potential Limiters are...

STRENGTHS

Practical
Strong willed
Decisive
Efficient
Achiever
Competitive
Independent
Strong Ego

POTENTIAL LIMITERS

Domineering
Pushy
Impatient
Unapproachable
Tough
Harsh
Poor listener
Insensitive

STRENGTHS

Optimistic
Enthusiastic
Persuasive
Animated
Talkative
Stimulating
Influencing
People oriented

POTENTIAL LIMITERS

Emotional
Disorganized
Excitable
Reactive
Undisciplined
Vain
Manipulative
Overly talkative

STRENGTHS

Perfectionist
Accurate
Persistent
Serious
Analytical
Orderly
Cautious
Logical

Too serious
Picky
Judgmental
Fears criticism
Critical
Detached
Self critical
Procrastinates

POTENTIAL LIMITERS

STRENGTHS

Supportive
Agreeable
Contented
Calm
Amiable
Thorough
Dependable
Loyal

POTENTIAL LIMITERS

Stubborn
Unsure
Awkward
Possessive
Insecure
Resistant to change
Slow to decide
Reluctant to speak up



How Can We Get Hurt?

RUSHING & TAKING CALCULATED RISKS



LACK OF INFORMATION& TIME TO PROCESS

BEING RUSHED OR RELYING ON OTHERS



Definitions Matter – A Lot!

- **Error:** An action or inaction that **unintentionally**
 - Results in an undesirable or unwanted condition OR
 - Leads a task or system out of limits OR.
 - Deviates from a set of rules
- **Event** (or incident): The undesirable result set of errors or a set of conditions
- Deviation: Not strictly complying with a rule, standard or expectation
 Violation: Intentionally and complying with a rule, standard or expectation
- standard or expecta
- Active Error: An action or inaction that results
- immediate consequence

 Latent Error: An action or inapped that results in consequences that are delayed prairies latent conditions



Some Basic Understanding

- 90% of events are caused by something OTHER THAN JUST the individual
- 95% of people react very similarly (physiologically) to the same stimuli
- People do what they do, at the time that they do it, for reasons that make sense to them at the time
- E-CHP is NOT common sense



Violation – conscious intent to deviate from a rule

<10%

Isolated

Violations

We are hired to do an OCCUPATION

(operator, mechanic, mobile equipment operator, janitor)

These occupations require us to do JOBS

Drive Mobile Equipment,
Perform Lock-out-tag-out
Operate equipment,
Weld

These jobs contain TASKS

Lock-out-tag-out THIS pump

E-CHP

Drive fork lift into THIS tight place to handle THIS load THIS way

ACTIONS
(Stepsat the TASK and

OULTADIILIES into see tight space area in truck

Performance Modes

Error Rates

 Skill based – habitual tasks – need low or no conscious thought – don't have to think...

1:1,000

 Rule based – there is a rule and the person knows rule exists but does not have to KNOW the rule (we cannot know all of the rules)...

1:100

Knowledge based – The person does not know what they don't know – they THINK they know but have some doubt... 1:2 – 1:10 !





What are Triggers?

Clues, Signals, Indications, Symptoms, or Prompts

 Observable actions or reactions and should "trigger" a response

A recognized thought or individual perception

- Utilizing the 5 senses
 - Smell
 - Touch
 - Taste
 - Sight
 - Hearing
- The "6th Sense"- of intuition or a gut feeling that something just isn't right



Traps & Triggers

- Stress
- Multi-tasking/High work load
- Time pressure
- Poor communications
- Vague/poor written guidance
- Overconfidence
- Infrequent or first time task
- Distractions
- First working day following time off > 4 days
- The end of a shift or extended shift

Triggers – Observable actions or reactions, a recognized thought or individual perception or a "gutfeeling" that something isn't right.

Trap – A task related predicament (characteristic of a specific task or individual) that increases the probability for error during a specific action.

The traps and triggers are set differently and reacted upon differently by different personality types.





Using the right tool, the right way, at the right time reduces error rate in factors of 10



Summary / Conclusion

The integration of the knowledge and use of personality tendencies significantly improves the probability that traditional human performance elements will be used the right way to reduce errors and events, especially on tasks that contain fatality or serious injury potential or relate to process safety.

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Some Homework

Discover your e-colors and personality traits / tendencies at www.e-chp.net

Get your family and co-workers to do the same

Have a discussion about how your personality tendencies impact performance (life, family, work, etc.)

