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Security Policies

What we're going to talk about

- Why have policies?
- Why they don't work
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- What we want to achieve
 - https://powcoder.com
- Why it is hard
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- How to analyse Policies
- How to produce evidence-based Policies

Why have policies?

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Threat Model
(Identify Threats)

Assess Risk
(Assess probability, potential harm, and priority of attacks)

Define Security Policy
(Security Goals of System)

Devise Countermeasures
(Technologies)

Why Policies?

- It's all about risk management
- It's like insurance
 - You buy theft and travel insurance but you seldom get [anything back](https://powcoder.com)
 - We need to start growing up when it comes to security in the virtual world
- It will COST
- When an attack comes companies will lose money and opportunities

Policy is about

- Order
 - Removing capricious and arbitrary decision makingAssignment Project Exam Help
 - Constraining courses of action <https://powcoder.com>
- Authority Add WeChat powcoder
 - Writer needs to have legitimate authority
- Expertise
 - Based on expert knowledge

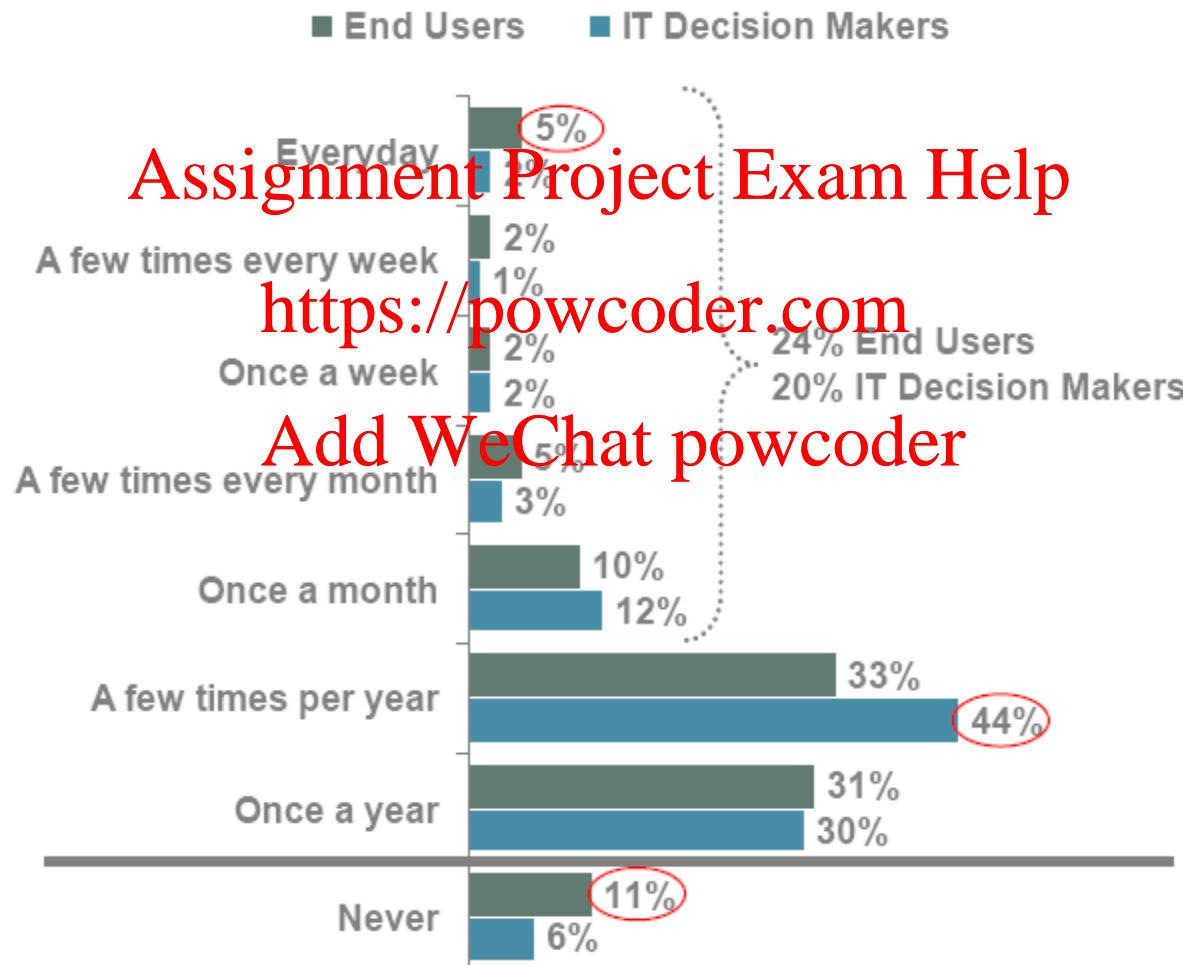
Why Security Policy?

- It will impact on the convenience of your workers and your company's functioning
- It will not be popular
- It is a matter of balancing inconvenience against risk
- Not doing it is not an option
- Doing it poorly will cost you dearly

Survey by Cisco and conducted by InsightExpress

- 47% of employees and 77% of IT professionals worldwide believe that their companies' security policies need improvement and updating
- IT is not sufficiently educating and communicating security policies to employees, and that employees may not be paying attention.

Why don't they adhere to policy rules?



Why?

The majority of IT professionals believe that employees don't always adhere to policies because they **don't understand the risks** involved with their behaviour, because **security isn't a top-of-mind priority or issue**, or because the employees **just don't care**.

What do employees say?

- Lack of alignment between job activities that are perceived as necessary and policy constraints (**Autonomy**)
- Assignment Project Exam Help
• 42% of employees worldwide knowingly disregard security policies <https://powcoder.com> because they believe that the policies limit their ability to perform their work effectively (**Goals**)
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- China (62%) and the United Kingdom (55%) featured the highest percentages of employees expressing this frustration. (**Goals**)

JUST Having a Policy doesn't work....

Insanity: doing the same thing
over and over again and
expecting different results

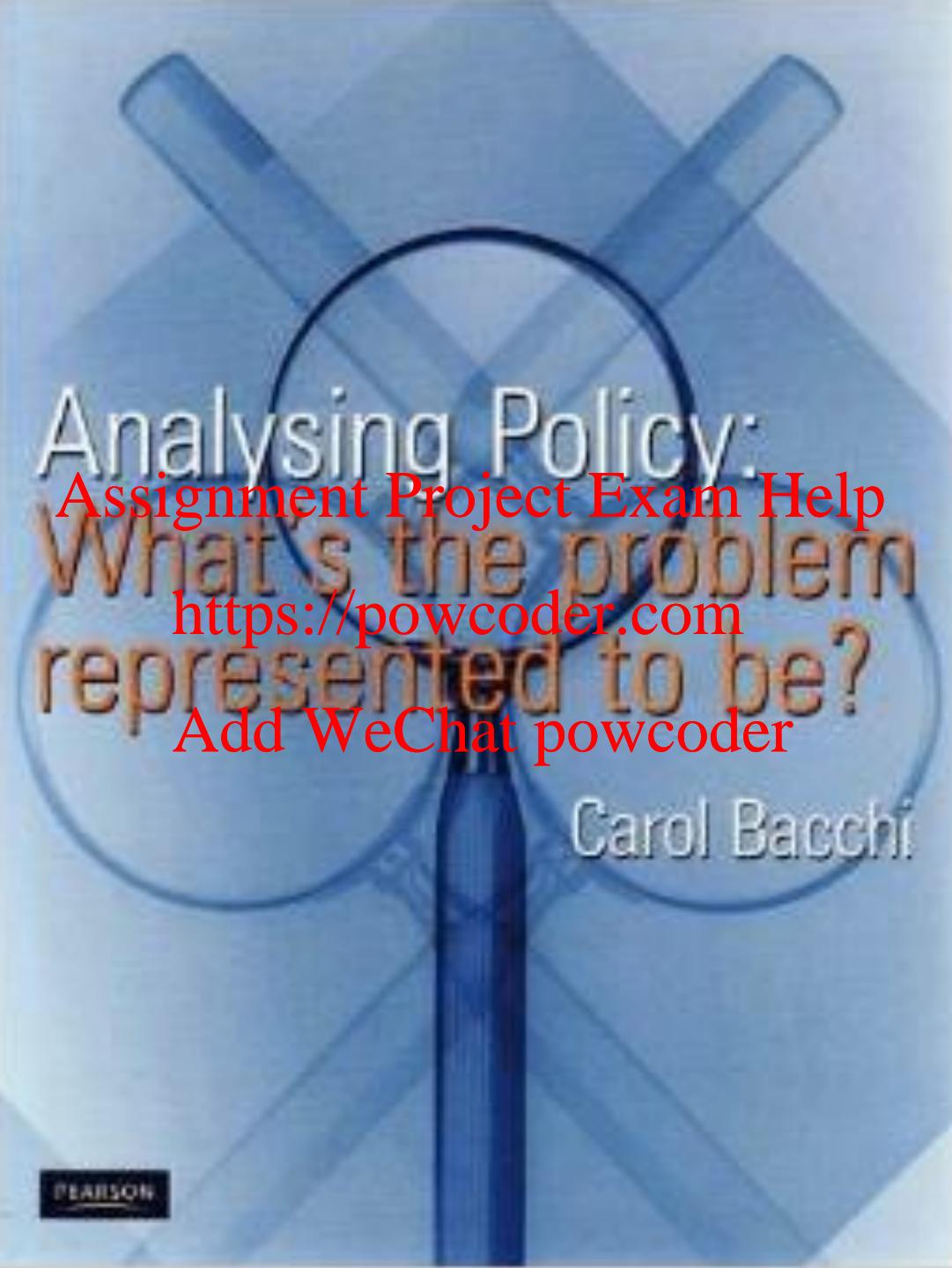
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Albert Einstein

Because Knowledge (on its own)
doesn't change behaviour!

Mostly Security Policies look like this:

- You should NOT do these things
 - Assignment
 - Project
 - Exam
 - Help
- You should do these things
 - Leave it to the professionals ???
- Also
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 - Too many
 - Ambiguous
 - Unrealistic



A book cover featuring a blue background with a magnifying glass centered over a pencil. The title 'Analysing Policy' is at the top, followed by a large, semi-transparent orange text 'What is the problem represented to be?'. Below the magnifying glass, the author's name 'Carol Bacchi' is visible. Red text overlays are present: 'Assignment Project Exam Help' and 'https://powcoder.com' above the main title, and 'Add WeChat powcoder' below it.

Analysing Policy:

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PEARSON

Metric for Judging Policies

- Policy is industry's best attempt to deal with insecure behaviour
- They are reacting to their understanding of what the problems are <https://powcoder.com>
- Step back and apply a scientific approach
- Called “**What’s the Problem Represented to Be**”
- Also *Problematisation*

Steps in Problematisation

- 1. What is the problem?**
- 2. What assumptions have been made?**
- 3. How has this representation of the problem come about?**
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<https://powcoder.com>
- 4. How can the problem be thought about differently?**
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- 5. What effects are produced by this representation of the problem?**
- 6. How could this representation be questioned?**

Child Care Policy

- A cash rebate is offered when both parents are engaged in paid labour
- What is the representation?
 - It is a labour market problem
 - Child care becomes difficult when both parents work

Child Care Policy

- Means tested subsidies are made available to assist with child care expenses
- What is the representation?
 - It is a welfare problem <https://powcoder.com>
 - Parents with inadequate means are to be assisted

Child Care Policy

- Vouchers are given to families to spend on child care or as a subsidy for a parent who stays home
- What is the <https://powcoder.com>?
 - It is a family choice Problem Add WeChat powcoder
 - Parents can now decide how their children are cared for

Child Care Policy

- Child care centres funded from the public purse
- What is the representation?
 - It is a public responsibility problem
 - Exactly like primary and secondary education

Example

- **1997 Act of Australia**
 - Allow people to work for the Dole
 - Establish Assignment Project Exam Help a max number of hours to work
 - Allow participants to receive \$10 extra per week to cover costs
- Applies to 18-24 year olds

What is the Problem?

- People getting the dole without working
- Look further
 - “long-term idleness at the taxpayer’s expense” in the legislation <https://powcoder.com>
- So problem is really
 - Addressing reliance on welfare
 - Dealing with dysfunctional adults
 - Obligation-free welfare encourages dependency

Assumptions?

- Labour is necessary and valuable part of character development
- Hard work is good
- Words “mutual obligation” and “welfare dependency”
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<https://powcoder.com>
- Thus -> there are no rights without responsibilities
- There is no such thing as a free lunch

How has this come about?

- The word “unemployment” has become an emotive term
- Over the years the idea of citizen responsibilities has become a popular concept
- Those who don’t work are considered irresponsible
- Blaming the unemployed is becoming more common

How can it be thought about differently?

- Are the unemployed really passive, despairing, dependent?
- Are they deficient, or could there be other explanations [Assignment Project Exam Help](https://powcoder.com) <https://powcoder.com>
- There might simply not be enough jobs Add WeChat powcoder
- Increasing automation might be contributing to shrinking of the market
- They might lack resources to get to work, or to dress properly

Continued...

- Is “work” really only “participation in the workforce”?
- What about people working for themselves or caring for relatives? <https://powcoder.com>
- Characterisation of dependency being BAD need to be reconsidered
 - The young and the very old are dependent too, and that is not their fault

Consequences?

- Blaming the unemployed for their plight
- Doesn't bring in the concept of interdependence
- Assumption of lack of skills needs to be questioned
- Assumed character flaws damaging to everyone
- Putting unemployed on one side and taxpayers on the other is damaging

How can it be questioned?

- In this case the media has not helped
- Questioning this in the media might help
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- The media can also correct and challenge
existing pre-conceptions
<https://powcoder.com>
- We need to question how cooperation could
be encouraged
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Example Policy

- It is Trust policy that only encrypted USB memory sticks should be used in the Trust's PCs. Assignment Project Exam Help
- This is to ensure patient confidentiality and data security. Add WeChat powcoder
- These memory sticks are freely available from the Trust's libraries, on presentation of a valid Trust ID card. There may be a charge for replacing lost memory sticks.

What's the Problem?

- Lost memory sticks being easy to read

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What Assumptions have been Made?

- That the problem results from the use of insecure media

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How has this representation come about?

- Media?

Unencrypted discs missing, Arizona State Retirement System notifies 44,000

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Share this article:



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The Arizona State Retirement System (ASRS) is notifying nearly 44,000 individuals enrolled in ASRS dental plans that two unencrypted discs containing their personal information — including Social Security numbers — were sent to a benefits company in Missouri, but were not received.

How many victims? Nearly 44,000.

What type of personal information? Names and Social Security numbers.

What happened? Two unencrypted discs containing the personal information were sent to Assurant, a benefits company in Missouri, but were never received.

What was the response? ASRS will now only use encrypted discs when sending sensitive information, and will pay for a tracking service to ensure the data arrives at its destination. All impacted individuals are being notified, and offered a free year of identity protection services.

How can it be thought about differently?

- Is it the movable media that is the problem
- Or the reason for using them in the first place

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What effects are produced?

- Delays as people have to apply for sticks
- Costs of replacement
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- Passwords again?
 - Use of weak passwords ignored

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How could the representation be disrupted?

- Gently introduce the flaws in the understanding
- Suggest alternative solutions
 - Eg. VPN access from home
 - Find out *why* people are putting confidential info on movable media

What policy is this?

Policy

- The company will identify all workplace stressors and conduct risk assessments to eliminate stress or control the risks from stress. These risk assessments will be regularly reviewed.
- The company will consult with Trade Union Safety Representatives on all proposed action relating to the prevention of workplace stress.
- The company will provide training for all managers and supervisory staff in good management practices.
- The company will provide confidential counselling for staff affected by stress caused by either work or external factors.
- The company will provide adequate resources to enable managers to implement the company's agreed stress management strategy.

What policy is this?

- Security of our IT systems is of paramount importance. We owe a duty to all of our [customers/clients] to ensure that all of our business transactions are kept confidential. If at any time we need to rely in court on any information which has been stored or processed using our IT systems it is essential that we are able to demonstrate the integrity of those systems. Every time you use the system you take responsibility for the security implications of what you are doing.
- [XYZ CO'S] system or equipment must not be used in any way which may cause damage, or overloading or which may affect its performance or that of the internal or external network.

On Friday

- Learn about Evidence-Based Policy
- Learn to Apply it

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Security Policies

Policies

- You have to write them
- Communicate them to staff
- Have an archive somewhere so they can be consulted [Assignment Project Exam Help
https://powcoder.com](https://powcoder.com)
- Enforce them -- ensure that people remember them
- What happens when people don't comply?

Problems

1. The number of controls
2. The disorder – different documents,
different controls, confusion reigns
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3. Compliance isn't cool!
<https://powcoder.com>
4. People miss the point
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5. Legalese, Abstract, Inconsistent
6. Companies think everything can be encoded
into procedures and processes
 - a) But we need the user to think out of the box

Smartphone and Tablet security

Steps that should be taken to improve the security of your smartphone:

- Set a PIN Assignment Project Exam Help
<https://powcoder.com> (do this right now).
- Ensure the PIN Adds WeChat powcoder is not guessable (not 0000, 1234 etc)
- Set a timeout to lock the device, such that the PIN is always required after a period of inactivity.

- Be careful which apps you install and what permissions you give them.
- If you configure location services, be aware what information is shared.
- Email security rules apply for smartphones and tablets. [Assignment Project Exam Help](https://powcoder.com) <https://powcoder.com>
- Keep a copy of your IMEI number (if applicable) in case of loss or theft.
- Backup the information on your devices.
- Ensure secure disposal of your devices at end of life.

Simplicity

- Keep it Simple!
 - Convince them that what you want them to do is ~~Assignment Project Exam Help~~ in their own interest
 - NOT : Here ~~https://powcoder.com~~ obey them or else....
 - RATHER: If you ~~you obey~~ Add WeChat ~~powcoder~~ benefits
- Display Empathy (Emotional Needs)
 - NOT: Users are lazy and stupid
 - RATHER: Yes, we know this is irritating but...

Rules for Writing Policies

- **KISS – Keep It Simple, Stupid!**
 - There is a tension between making it so long that people ~~Assignment, Project, Exam Help~~ the essential information <https://powcoder.com>
 - Write using simple language – you want to meet everyone where they are ~~Add WeChat powcoder~~
 - To the extent that an AUP is murky, confusing, or belittling it will be less effective

How are they written?

gunning-fog-index.com

home | further info | contact | disclaimer

Gunning Fog Index



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This is a tool that tries to calculate the Gunning Fog index, it is a rough estimate of the number of words per sentence, and the number of long words per word. An interpretation is that the text can be understood by someone who left full-time education at a later age than the index.

I like it!  Share 

<https://powcoder.com>

Copy and paste your text into the box below. Make sure you use complete sentences.

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BlaBlaMeter - how much bullshit hides in your text?

PR-Experts, politicians, ad writers or scientists need to be strong here!
BlaBlaMeter unmasks without mercy how much bullshit hides in any text.
A useful tool for everyone involved in writing!
Simply copy your text into the white field and check your writing style. It works with english text up to 15.000 characters (overhead will be cut off). For a meaningful result we recommend a minimum length of 5 sentences.

Check

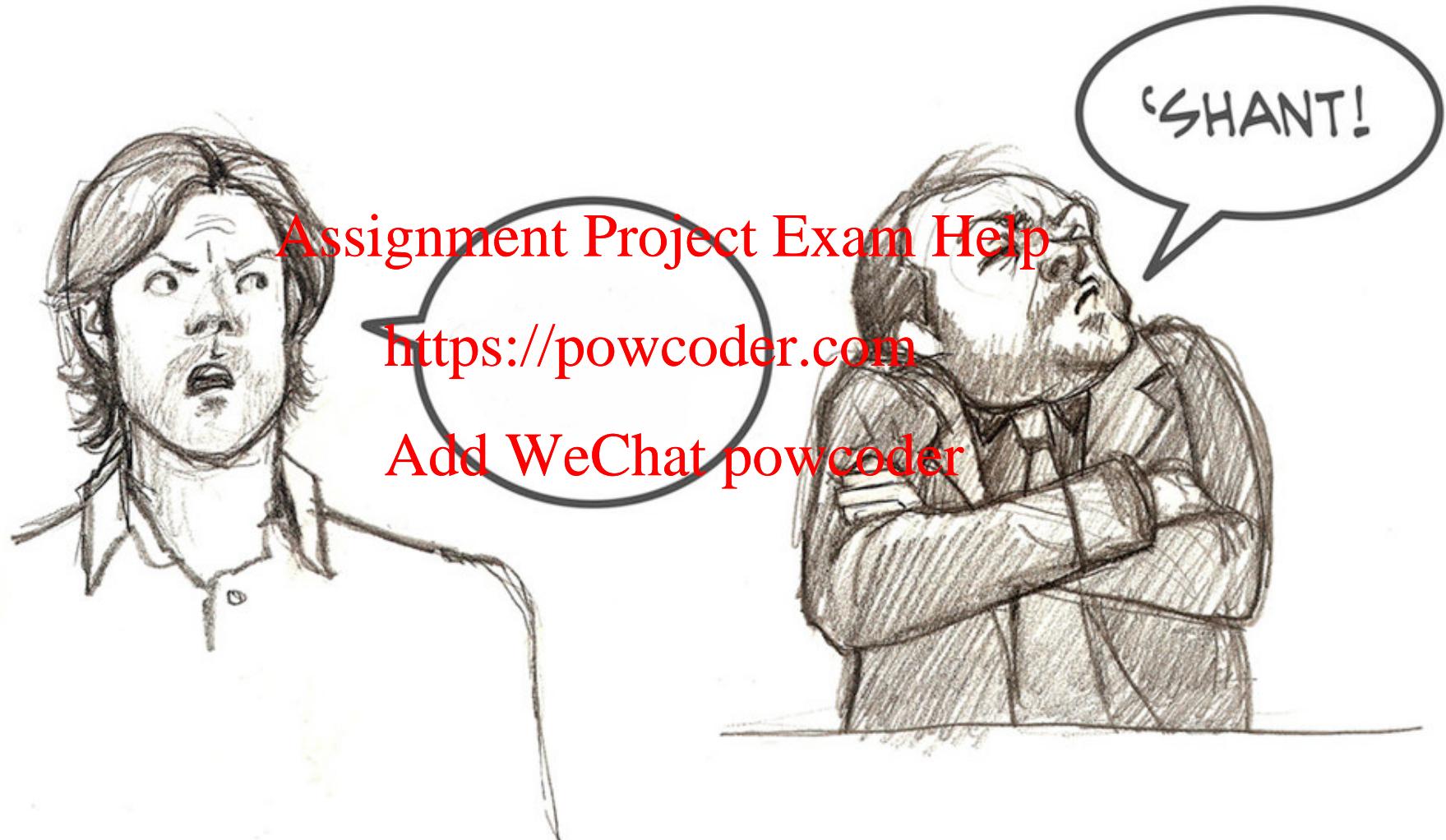
How it is communicated

- 59% of employees and 68% of IT professionals say they receive or send emails on policy updates Assignment Project Exam Help
- Problems with email
 - Email overload Add WeChat powcoder
 - Easily missed
 - Accidentally deleted
 - Difficult to perceive importance of message

What do users do with Policies?

- They ignore them
- They subvert them
- They struggle to keep up with all the different policies
- They are not constrained by them
- They do not COMPLY!
- IT says – users are lazy and obstinate

Impasse?



IT relationship to staff

- Dominance
- Cooperation
- Reciprocity
- Which one are you striving for?
- Which can you reasonably expect people to be comfortable with?

Daniel Pink

- **A -- Attunement** - take the other person's perspective
- **B – Buoyancy** - be able to deal with rejection
- **C – Clarity** – make things very clear
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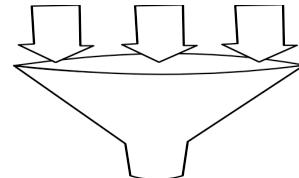
These three qualities are essential in persuading people to do anything.

Influence Tactics

- 1. Personal Motivation – want to**
- 2. Personal Ability – can do**
- 3. Social Motivation - whether other people encourage the right behaviors**
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- 4. Social Ability <https://powcoder.com> - whether other people provide help, information or resources**
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- 5. Structural Motivation -whether the environment encourages the right behaviors.**
- 6. Structural Ability - whether the environment supports the right behaviors**

So... It's not all about the person!

Facts and Rules



Environment

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<https://powcoder.com>

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<http://www2.potsdam.edu/alcohol/DrivingIssues/20060414152818.html>

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Drinking & Driving Drops with Peer Awareness

David J. Hanson, Ph.D.

An ad campaign that promoted the fact that most people in Montana don't drink and drive was followed by fewer drivers taking that risk. Here's the explanation.

"Personal Internet security" is a team sport

Cory Doctorow at 1:38 pm Thu, Jul 3, 2014

SHARE

TWEET

STUMBLE

COMMENTS

ADVERTISE AT 

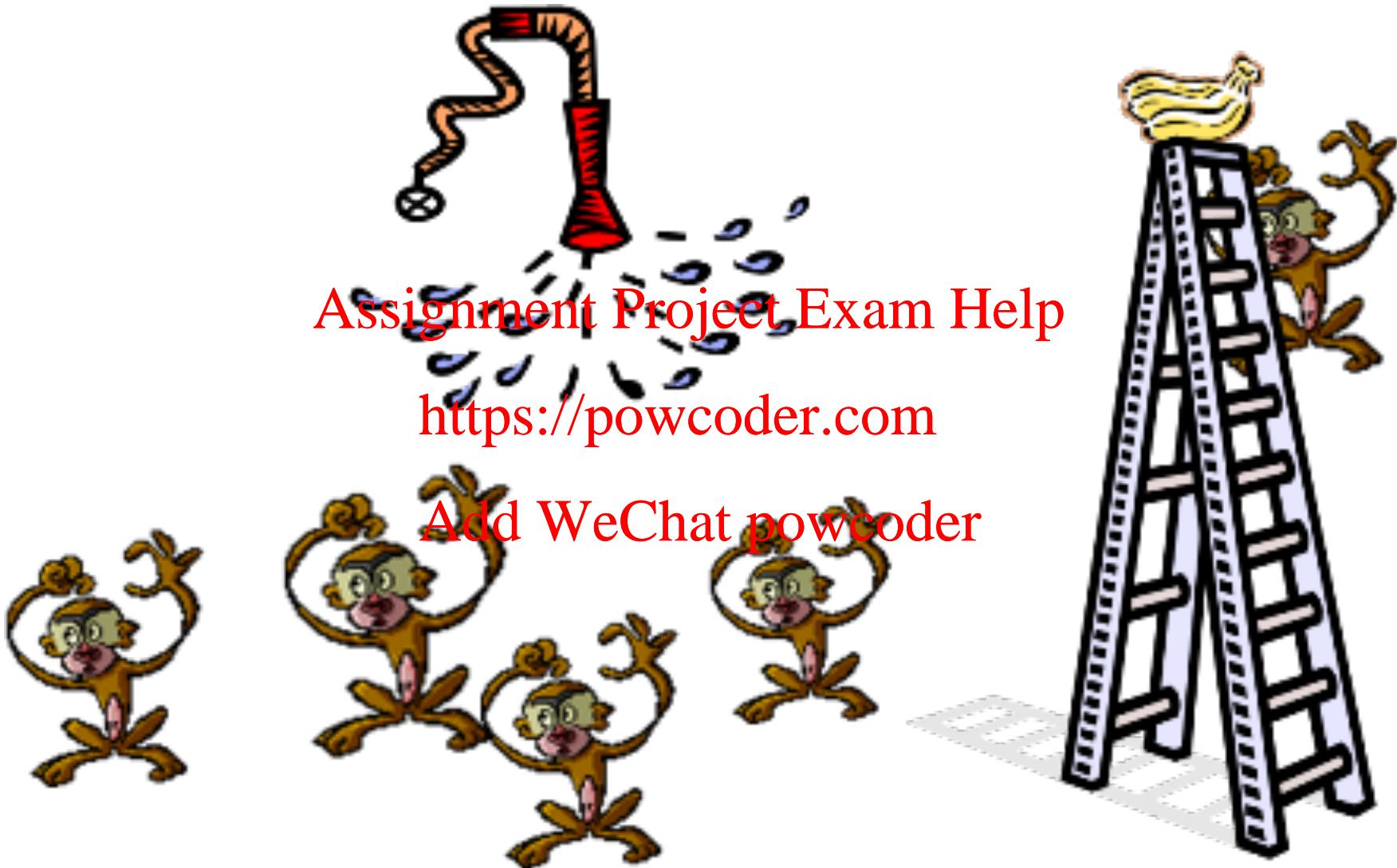


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Story/Norms



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That's the way things are done here

Structural

- Make it easy to do the wanted activity and hard to do the unwanted activity

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**Most people
spend more
time and
energy going
around
problems than
in trying to
solve them.**

Henry Ford



Summary

- Keep it simple
- Write it clearly
- Remember to consider the social aspects/norms
- Use stories where you can
- Design to make security easy
- Establish Norms

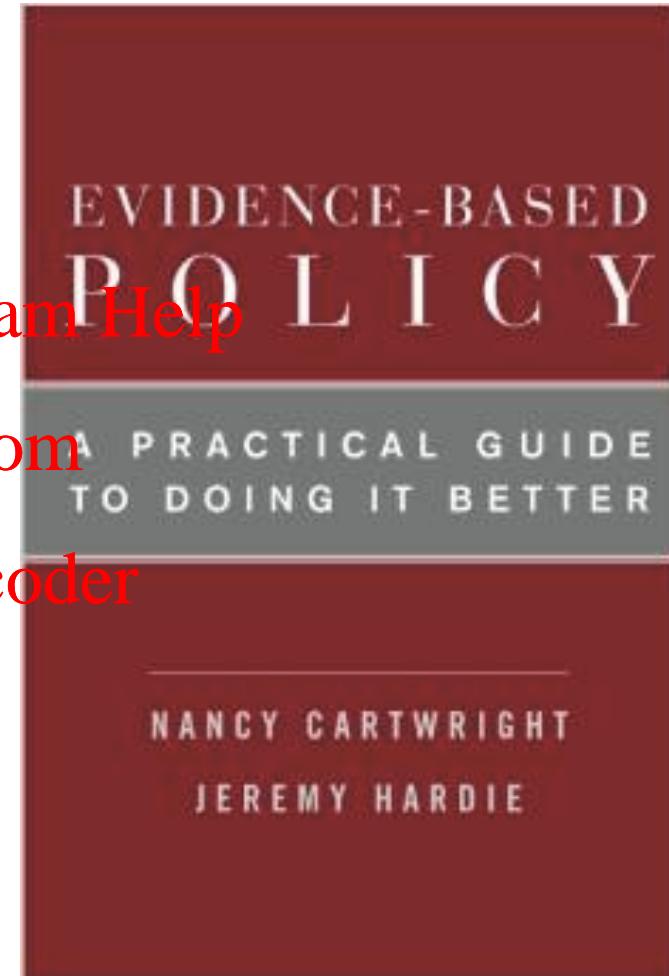
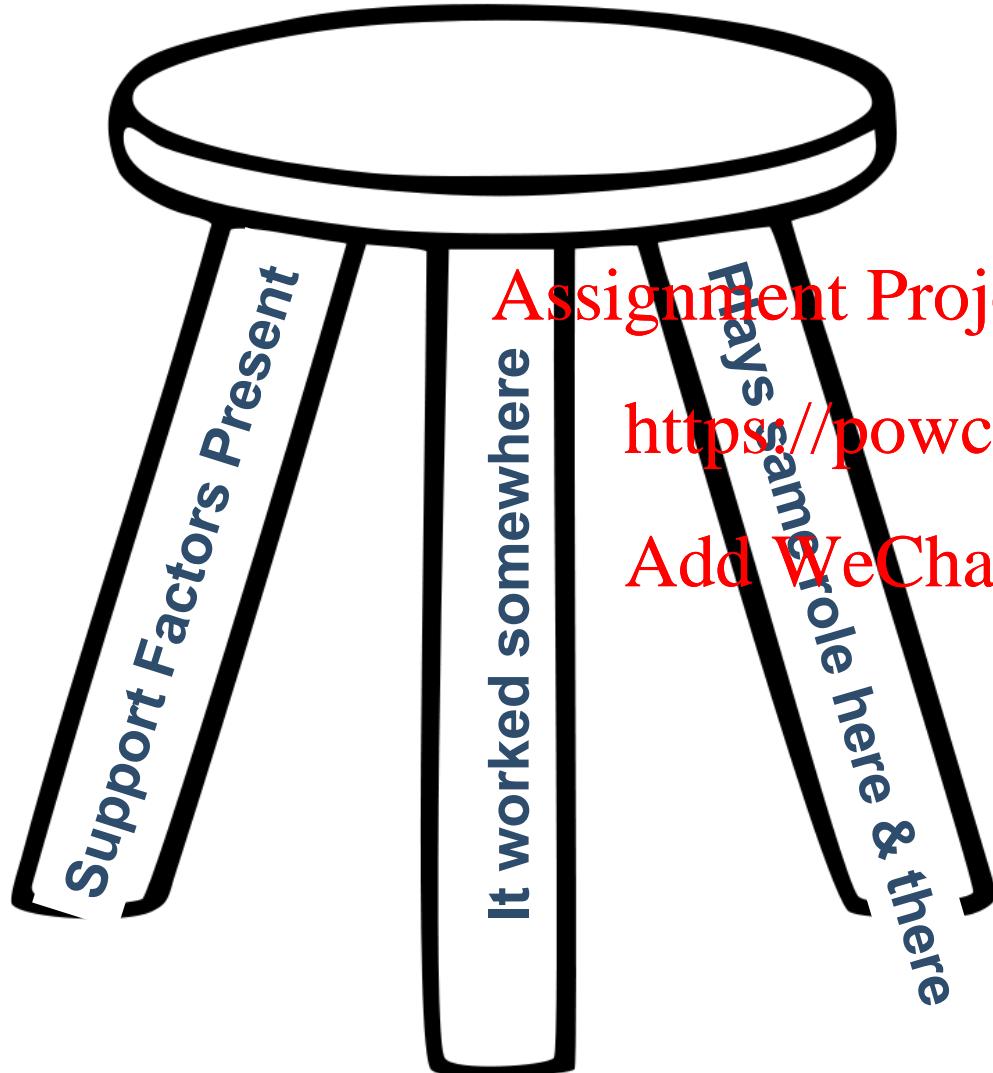
Things to bear in mind

1. Don't prohibit what you cannot prevent
2. Don't make rules impossible to obey
3. Keep it Simple, Keep it Reasonable
4. NEVER blame – think about the relationship with staff <https://powcoder.com>
5. Consequences Add WeChat powcoder
6. Don't prohibit what you can't prevent
7. Be Realistic
 - Don't write passwords down?
 - Don't share passwords
 - Aye, right!

Evidence-Based Policies?

- Question
 - Someone finds that providing people with a password strength meter encourages them to choose stronger passwords
<https://powcoder.com>
- Does that mean you should issue one of these to your staff?
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- It depends....

Evidence-Based Policy



Evidence

- Someone carried out a WELL-DESIGNED random controlled trial, and showed that it worked Assignment Project Exam Help
 - People MUST have been allocated randomly to conditions Add WeChat powcoder
 - There should be no confounding factors
 - The right data must be collected
 - The data must have been analysed correctly

Causal Role

- What is the cause, and what the effect?
- Ashtray ownership is correlated with lung cancer Assignment Project Exam Help
 - Does the ashtray cause the cancer?
- Coughing is correlated with TB
 - Does coughing cause TB?
- If you don't address the cause with your policy, you cannot hope to change the outcome

Causatives

- Causatives might differ from place to place
 - It might work in London but not in Glasgow
- Causes are ~~solo~~ Assignment Project Exam Help
 - Many causes often work together
 - If any are missing, the effect will not happen
 - Eg. You need flour, sugar and Baking Powder to make pancakes. Leave any out and they won't be very good
- It depends on the people who provide support

Support Factors

- What factors made the effect happen in the random controlled trial?
- Are they present here? Assignment Project Exam Help
- EG – in the West we get an increase in hand washing when Add We have trained to do so <https://powcoder.com>
- In India this did not happen
- The support factor that was missing:
 - Availability of soap

Example

- In the mid 1990s California had problems with academic achievement in early grades
- They wondered whether reducing class sizes would help <https://powcoder.com>
- STAR project in Tennessee in 1985 had provided that students in smaller classes performed better
- California put the funding in place for smaller classes in earlier grades

Problematization

- Problem:
 - Student performance due to large class sizes
- Assumption Assignment Project Exam Help
 - Student performance is improved when teachers have more time to interact with them Add WeChat powcoder
- Can it be thought about differently?
- What effects are produced?
 - Blaming teachers?

California

- In 2002 they reviewed the situation and did not find the expected improvement
- They had Assignment Project Exam Help
 - Evidence from <https://powcoder.com>
 - Their causative was Add WeChat powcoder
 - more teacher time -> better performance
 - Support?
 - Enough teachers
 - Enough classrooms

California

- In Tennessee they only trialled the smaller class sizes where there were free classrooms
- Tennessee had enough qualified teachers
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- So
 - They had a RCT with good evidence
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 - They had identified causatives
 - BUT – what about the support – that California did not have
 - They did not have enough classrooms for the smaller classes
 - California had to find 1200 teachers overnight

**Smaller
Classes**

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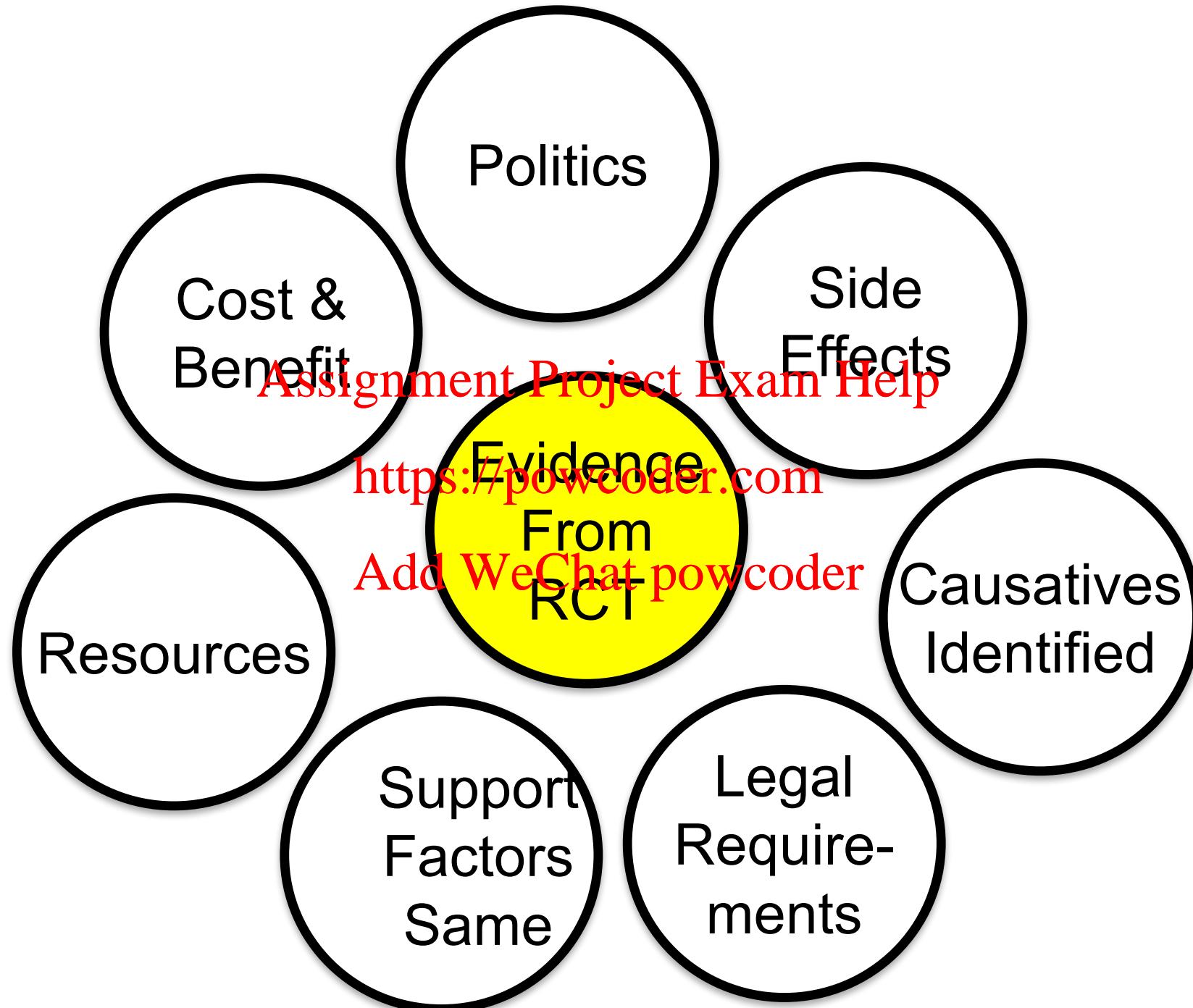
**Qualified
Teachers**

<https://powcoder.com>

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Space

Other

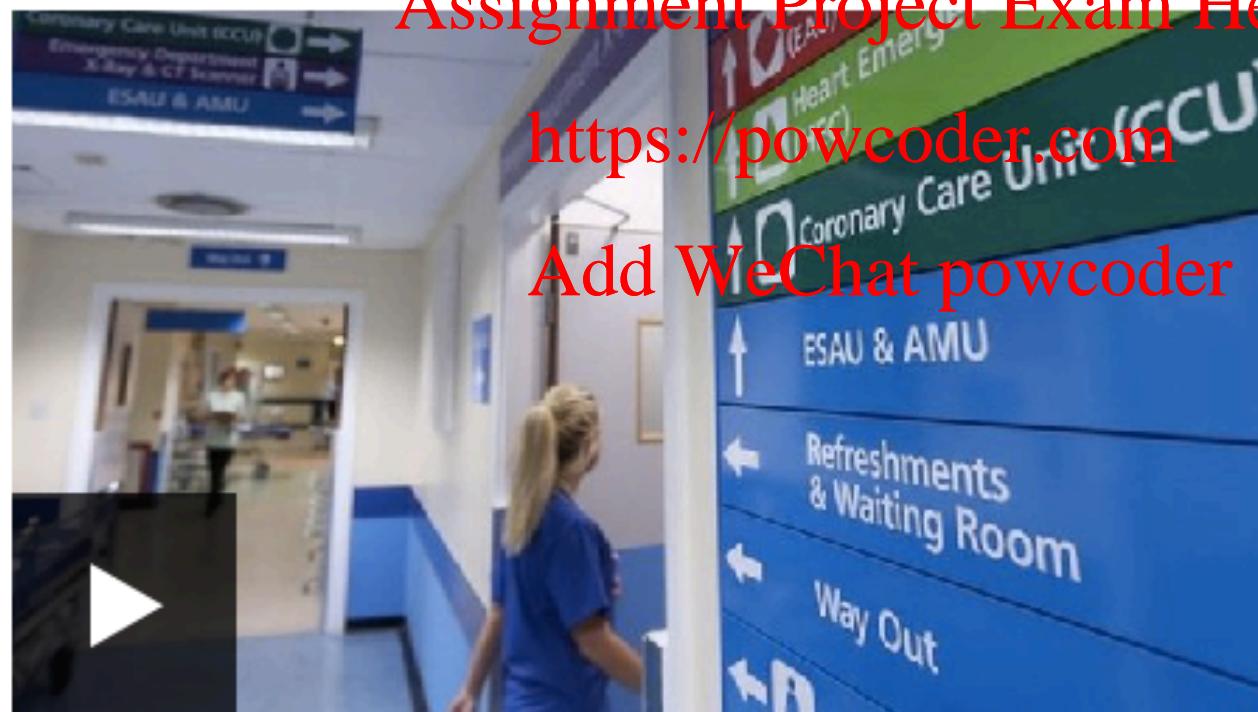


Labour's Hunt urges 'Hippocratic oath' for teachers

 COMMENTS (936)

By Sean Coughlan

BBC News education correspondent



NHS staff due to begin strike

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Teachers should take a public oath committing themselves to the values of their profession, suggests Labour's Tristram Hunt.

New Policy Critique

- No Evidence Provided (as far as I can see)
- Causatives?
 - Do they think teachers are currently not committed? <https://powcoder.com>
 - And that an oath would make the difference? [Add WeChat powcoder](#)
- Support Factors?
 - Good leadership
 - Not being tired from frequent govt policy changes
 - Teachers feeling valued

1. Overview

Strong passwords are critical to computer security. They are the first line of defence for user accounts. A poorly chosen password (easy to guess) or one left in open view on a post-it note could cause the entire network to be compromised.

All users of the University of [REDACTED] network are expected to follow the guidelines below when selecting their passwords and in keeping them secure.

- a) Change your password every three months.
- b) Never share your password.

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- c) Never reveal your password to anyone – not even Information Services staff.
- d) Do not re-use old passwords.

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- e) Passwords must be at least six characters long and contain characters from at least three of the following categories:
 - English uppercase characters (A–Z)
 - English lowercase characters (a–z)
 - Base 10 digits (0–9)
 - Non-alphanumeric (For example: !, \$, #, or %)

If you suspect that your password has been compromised, report the matter to the IS Service Desk immediately.

Evidence to bear in mind

- People will not change passwords unless forced to do so
- People will reuse passwords (most people will have 5-6 [passwords](https://password.com))
- People working in ~~AddiWeChat~~ share passwords
- Strong passwords are easier to observe than weak passwords
- People have a compliance budget – so be careful how much you ask for

First

- Carry out problematisation for this policy
- Now think about how you would write a password policy for nurses in a hospital environment [Assignment Project Exam Help https://powcoder.com](https://powcoder.com)
 - Nurses are assigned to a group of co-located wards
 - They work as a team
 - They share a computer per ward

Policy General

Users must note that all system authentication credentials assigned to them are for their own personal use. Authentication credentials must not be shared or disclosed to any third party other than authorised system support personnel. It will be a breach of this policy for any user to misuse their or other users authentication credentials. If any such misuse results in a user knowingly elevating their system privileges above those that they have been authorised to use then this will be considered an act of gross misconduct.

- All system-level passwords (e.g., root, enable, Windows admin, application administration accounts, etc.) Must be changed on at least a quarterly basis.
- Remote access to privileged accounts (e.g., root, enable, Windows admin, application administration accounts, etc.) must not be attempted from insecure locations (e.g., open access cluster systems or public terminals)
- All user-level passwords (e.g., e-mail, web, desktop computer, etc.) must be changed at least every six months with a recommended change interval of every four months.
- A user account that has system-level privileges granted through group memberships or systems such as Dynamic Local User must have a password that is unique from all other accounts held by that user.
- Passwords must not be inserted into email messages or other forms of electronic communication.
- Where the Simple Network Management Protocol (SNMP) is used to access systems; the community strings must be defined as something other than the Standard defaults of "public," "private" and "system" and must be different from the passwords used to log in interactively to the systems. A keyed hash should be used where available (e.g., SNMPv2).

Influence Tactics

- 1. Personal Motivation – want to**
- 2. Personal Ability – can do**
- 3. Social Motivation - whether other people encourage the right behaviors**
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- 4. Social Ability <https://powcoder.com> - whether other people provide help, information or resources**
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- 5. Structural Motivation -whether the environment encourages the right behaviors.**
- 6. Structural Ability - whether the environment supports the right behaviors**

Solutions?

- "For every problem there is one solution which is simple, neat and wrong" — H.L. Mencken
- Managing Assignment Project Exam Help!
- You cannot FORCE them to comply
- What will help:
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 - The user is NOT the enemy
 - Be realistic about what you ask
 - Use the evidence
 - Be careful



Activity

- Universities have began to explore the use of technology enhanced active spaces.
- Courses are designed around preparation and activities with <https://powcoder.com> their own devices within the spaces.
- Concerns surround the challenges of preserving privacy in such spaces.
- Teams create three questions, but ask one via YACRS. Teams will then consider the responses for subsequent session.