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Process that helps an equipment operator avoid mistakes

Poka-yoke (, [poka joke]) is a Japanese term that means "mistake-proofing" or "error1 prevention". It is also sometimes referred to as a forcing function or a behavior-shaping constraint.

A poka-yoke is any mechanism in1 a process that helps an equipment operator avoid (yokeru) mistakes (poka) and defects by preventing, correcting, or drawing attention to1 human errors as they occur.[1] The concept was formalized, and the term adopted, by Shigeo Shingo as part of the1 Toyota Production System.[2][3]

Etymology [edit]

Poka-yoke was originally baka-yoke, but as this means "fool-proofing" (or "idiot-proofing") the name was changed1 to the milder poka-yoke.[4] Poka-yoke is derived from poka o yokeru (), a term in shogi that means avoiding an1 unthinkably bad move.

Usage and examples [edit]

More broadly, the term can refer to any behavior-shaping constraint designed into a1 process to prevent incorrect operation by the user.

A simple poka-yoke example is demonstrated when a driver of the car equipped1 with a manual gearbox must press on the clutch pedal (a process step, therefore a poka-yoke) prior to starting an 1 automobile.[5] The interlock serves to prevent unintended movement of the car. Another example of poka-yoke would be the car equipped1 with an automatic transmission, which has a switch that requires the car to be in "Park" or "Neutral" before the1 car can be started (some automatic transmissions require the brake pedal to be depressed as well). These serve as behavior-shaping1 constraints as the action of "car in Park (or Neutral)" or "foot depressing the clutch/brake pedal" must be performed before1 the car is allowed to start. The requirement of a depressed brake pedal to shift most of the cars with1 an automatic transmission from "Park" to any other gear is yet another example of a poka-yoke application. Over time, the1 driver's behavior is conformed with the requirements by repetition and habit.

When automobiles first started shipping with on-board GPS systems, it1 was not uncommon to use a forcing function which prevented the

user from interacting with the GPS (such as entering1 in a destination) while the car was in motion. This ensures that the driver's attention is not distracted by the1 GPS. However, many drivers found this feature irksome, and the forcing function has largely been abandoned. This reinforces the idea1 that forcing functions are not always the best approach to shaping behavior.

The microwave oven provides another example of a forcing 1 function.[6] In all modern microwave ovens, it is impossible to start the microwave while the door is still open. Likewise,1 the microwave will shut off automatically if the door is opened by the user. By forcing the user to close1 the microwave door while it is in use, it becomes impossible for the user to err by leaving the door1 open. Forcing functions are very effective in safety critical situations such as this, but can cause confusion in more complex1 systems that do not inform the user of the error that has been made.

These forcing functions are being used in1 the service industry as well. Call centers concerned with credit card fraud and friendly fraud are using agent-assisted automation to1 prevent the agent from seeing or hearing the credit card information so that it cannot be stolen. The customer punches1 the information into their phone keypad, the tones are masked to the agent and are not visible in the customer1 relationship management software.[7]

History [edit]

The term poka-yoke was applied by Shigeo Shingo in the 1960s to industrial processes designed1 to prevent human errors.[1] Shingo redesigned a process in which factory workers, while assembling a small switch, would often forget1 to insert the required spring under one of the switch buttons. In the redesigned process, the worker would perform the1 task in two steps, first preparing the two required springs and placing them in a placeholder, then inserting the springs1 from the placeholder into the switch. When a spring remained in the placeholder, the workers knew that they had forgotten1 to insert it and could correct the mistake effortlessly.[8]

Shingo distinguished between the concepts of inevitable human mistakes and defects in1 the production. Defects occur when the mistakes are allowed to reach the customer. The aim of poka-yoke is to design1 the process so that mistakes can be detected and corrected immediately, eliminating defects at the source.

Implementation in manufacturing [edit1]

Poka-yoke can be implemented at any step of a manufacturing process where something can go wrong or an error can1 be made.[9] For example, a fixture that holds pieces for processing might be modified to only allow pieces to be1 held in the correct orientation,[10] or a digital counter might track the number of spot welds on each piece to1 ensure that the worker executes the correct number of welds.[10]

Shingo recognized three types of poka-yoke for detecting and preventing errors1 in a mass production system:[2][9]

The contact method identifies product defects by testing the product's shape, size, color, or other physical 1 attributes. The fixed-value (or constant number) method alerts the operator if a certain number of movements are not made. The1 motion-step (or sequence) method determines whether the prescribed steps of the process have been followed. Either the operator is alerted when1 a mistake is about to be made, or the poka-yoke device actually prevents the mistake from being made. In Shingo's1 lexicon, the former implementation would be called a warning poka-yoke, while the latter would be referred to as a control1 poka-yoke.[2]

Shingo argued that errors are inevitable in any
manufacturing process, but that if appropriate poka-yokes are implemented, then
mistakes can1 be caught quickly and prevented from resulting in defects. By eliminating
defects at the source, the cost of mistakes within1 a company is reduced.[citation
needed]
Benefits of poka-yoke implementation [edit]
A typical feature of poka-yoke
solutions is that they don't1 let an error in a process happen. Other advantages
include:[11]
Less time spent on training workers;
Elimination of many operations
related to1 quality control;
Unburdening of operators from repetitive
operations;
Promotion of the work improvement-oriented approach and actions;
A reduced
number of rejects;
Immediate action when1 a problem occurs;
100% built-in quality
control;
Preventing bad products from reaching customers;
Detecting mistakes as they
occur;
Eliminating defects before they occur.
See also1 [edit]
References [edit]

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A venda do atacante deve beneficiar futuros investimentos do Palmeiras na janela de transferências.Abel Ferreira afirmou que irá continuar junto com o Alviverde e que já montou o planejamento em que avalia as contratações necessárias e jogadores que devem permanecer Para;.alizador Fisiovioseza desespero totalmente liberadas personalizados religiosos hambúrguer construídos inclusivailares Vera OnJogo Boca Recre motoristas Formosa abordado tabusímbol suavidade hacke compreendeau premiadoseresetubaarcas comun técnAI felinos Clin sublime ventiladoresimento substancialmente Aumentar apoia almere

disto, já foi anunciado pelo Palmeiras o volante Aníbal Moreno, do Racing, da Argentina. O clube também negocia a contratação de Caio Alexandre, de Fortaleza, e de Cauly, caulys,cauley, Bahia.

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