

# 6

(sigma:σ):①

②  
 ③ 100 (Defects Per Million Opportunities, DPMO)

(Standard Deviation):

(sigma) σ s( )

6 (SIX SIGMA) :6 Cp 2.0 Zero Deffect 100  
 3.4 가

6

6 :①

±6σ spec

(Error, Failure)

100

3.4

②

3.4 PPM

3.4 DPMO(Defects Per

Million Opportunities)

DPMO

가 ±1.5σ

④

가 ±1.5σ

3.4PPM(

), Cp(( )

) 2.0, Cpk(

) 1.5,

99.9997%

CTQ(Critical To Quality):

QFD(Quality Function Deployment):

가

(Process Capability):①

가

②

6σ

(Natural Tolerance)

가 (J.M.Juran)③

(A.V.Feigenbaum)

(Process Capability Index:Cp,Cpk):

, 6σ( )

.① Cp = T/6σ =

(Su - Sl)/6σ

(T:Su - Sl) 6σ

.②

(Spec.)

Cp

Cpk

Cpk=Cp(1 - k),k= |

| /((USL - LSL)/2)

COPQ(Cost Of Poor Quality):

가

(Malcolm Baldrige) :

1998

6

D(Define, ):

가

M(Measure, ):

(Process Mapping)

A(Analysis, ):

I(Improve, ):

가

?

C(Control, , ):

6

(C)

가

(

).

(Process):

(Process Map):

가

6

(Champions):6

6

(Master Black Belts):6

가

가

BB(Black Belt):6

가

GB(Green Belt):

6

가

QC 7가

(

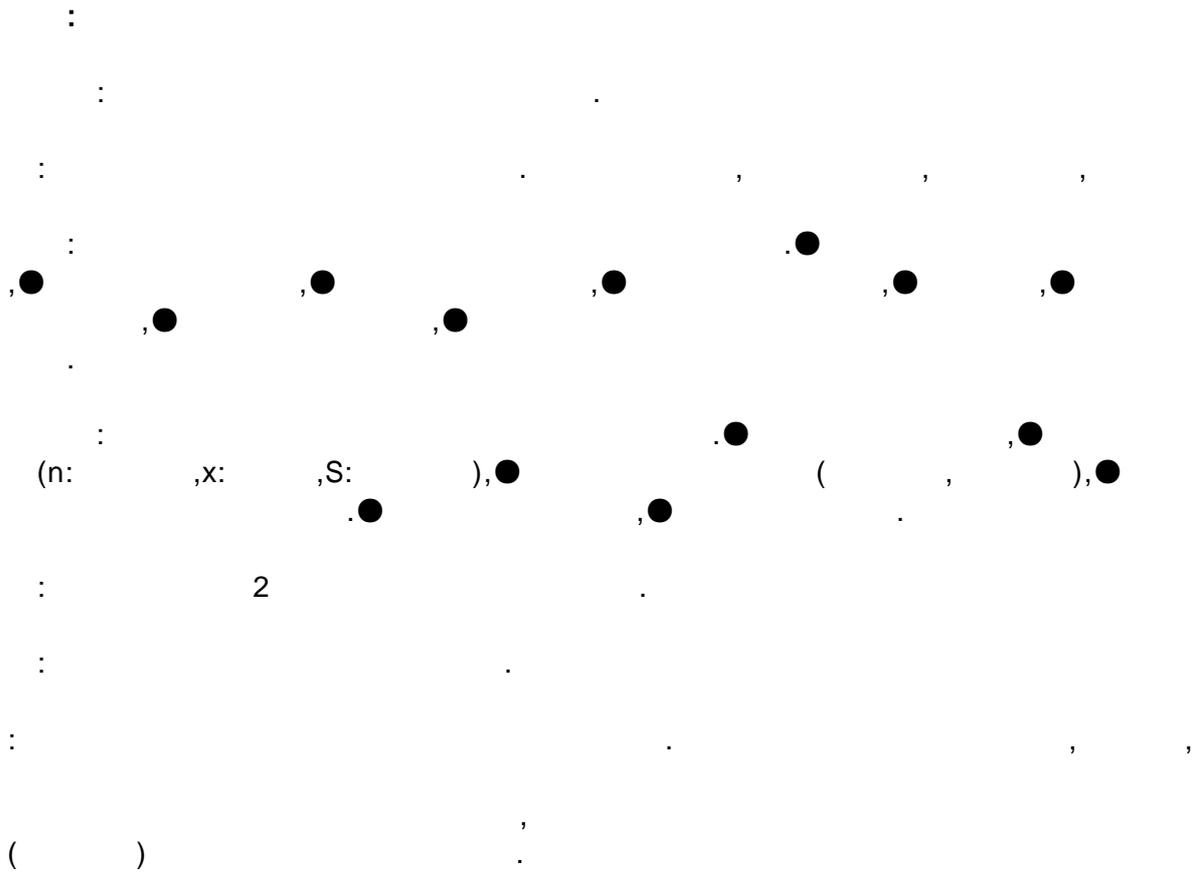
가

7가

.(

가

)



(n: ,x: ,S: ), ( , )

2

QC 7가 ( 가 ) , PDPC ( )

PDPC( ) :

(Correlation Analysis): ① 가 1  
 -1 ②

(Correlation Coefficient):

(Regression Analysis):

(Analysis of Variance,ANOVA):

(Contingency Table Analysis):

Screening( ) :

(Brain - storming):

( ):

( ):

(Distribution):①

가 , ( ) , t- , X2( )- , F- ( ) ( ) ②

(Probability):가

(Random Variable):

(Discrete Type)

(Continuous Type)

(Discrete Random Variable):

(Continuous Random Variable):

(Normal Distribution):

가

(Binomial Distribution):

,p np

(Poisson Distribution):

c u 가

(Cause - and - Effect Diagram):

가

가

( )

(Central Line):

(Average):

(Mean):

(Median):                    가                    가                    가

(Range):                    ,

(Characteristic):                    가

(Variation):                    (                    )                    가                    (                    )                    가

(Inherent Variation):

(Total Variation):

(Common Cause):

;

(Special Cause):

(Assignable cause)

가

(Run):                    가

가

1 (Type 1 Error):                    가                    ;

;

2 (Type 2 Error):                    가                    ;

;

(Control Chart):①

② 가                    가

(Control Limit):

(                    (UCL)                    (LCL)).

(Specification):

(                    )

**(Statistical Control):**

**(Statistical Process Control):**

**(Interaction):**

**(Random Sampling):**

가

**(Population):**

**(Parameter):**

**(Significance Probability):**가

1

**(Degree of Freedom):**