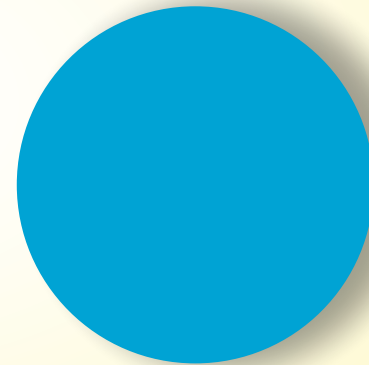


QUALITY SYSTEMS

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APP SECTION OF www.technologystudent.com

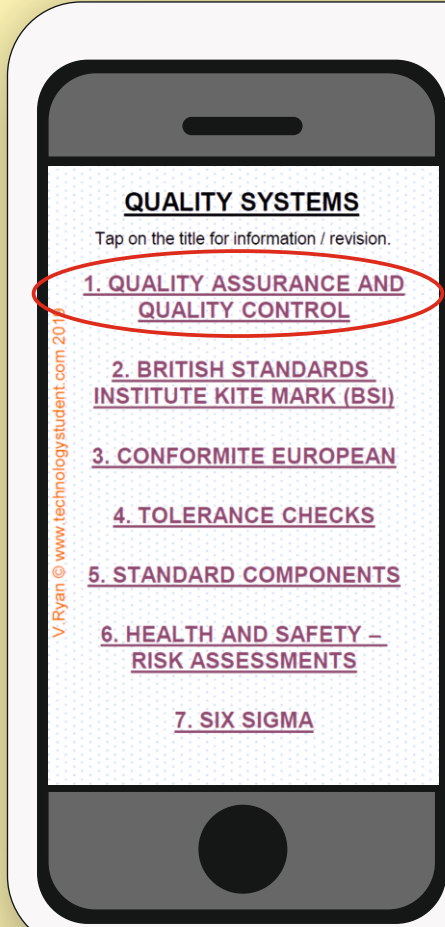
**CLICK ON THE
BUTTON
TO DOWNLOAD
THE APP**



Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

IF YOU ARE AN EDUCATOR, CONSIDER JOINING US AT FACEBOOK – WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

<https://www.facebook.com/groups/254963448192823/>



QUALITY ASSURANCE AND QUALITY CONTROL

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**ARE YOU READY?
USE THE MOBILE App!!**

1

WHAT IS QUALITY ASSURANCE?



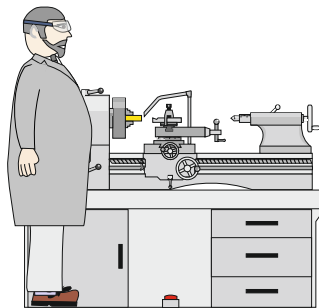
HOW DOES QUALITY ASSURANCE DIFFER FROM QUALITY CONTROL?

2

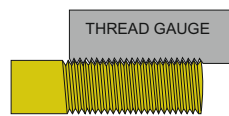
FOUR STAGES OF MANUFACTURING AN QUALITY ELECTRIC GUITAR, ARE SEEN OPPOSITE.

IN THE NEXT BOX, EXPLAIN THE QUALITY CONTROL CHECKS, THAT TAKE PLACE, AT EACH OF THE FOUR STAGES.

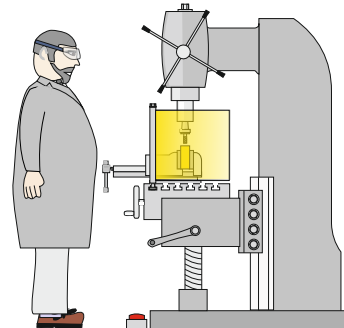
THREAD TURNING



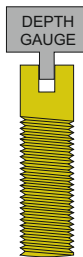
QUALITY CHECK 1



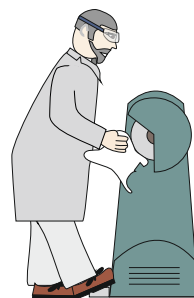
SLOT CUTTING



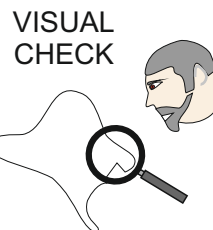
QUALITY CHECK 2



SCRATCH PLATE POLISHING



QUALITY CHECK 3



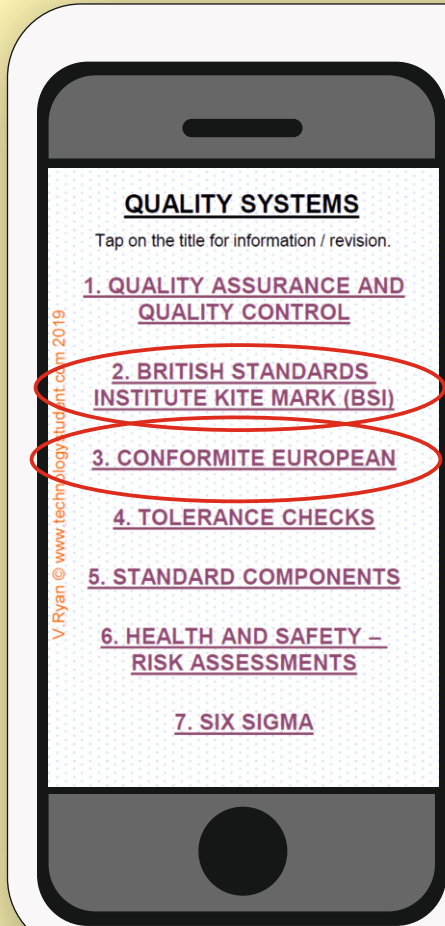
ASSEMBLY



CHECK 4
AUDIO/SOUND CHECK



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BRITISH STANDARDS EUROPEAN STANDARDS

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1

DESCRIBE THE QUALITY CHECKS THAT TAKE PLACE, DURING THE MANUFACTURE OF THIS POLYPROPYLENE CHAIR.

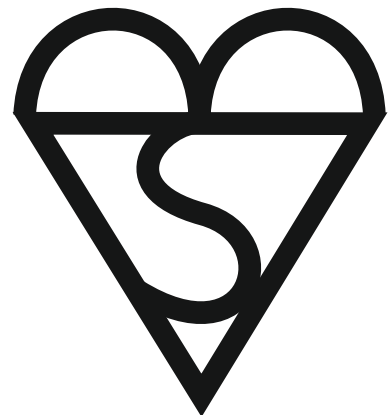


Answer in the next box.

QUALITY CONTROL CHECKS
THE POLYPROPYLENE CHAIR

2

STUDY THE IMPORTANT SYMBOLS BELOW.
Answer the questions in the next two boxes.



BRITISH
STANDARDS

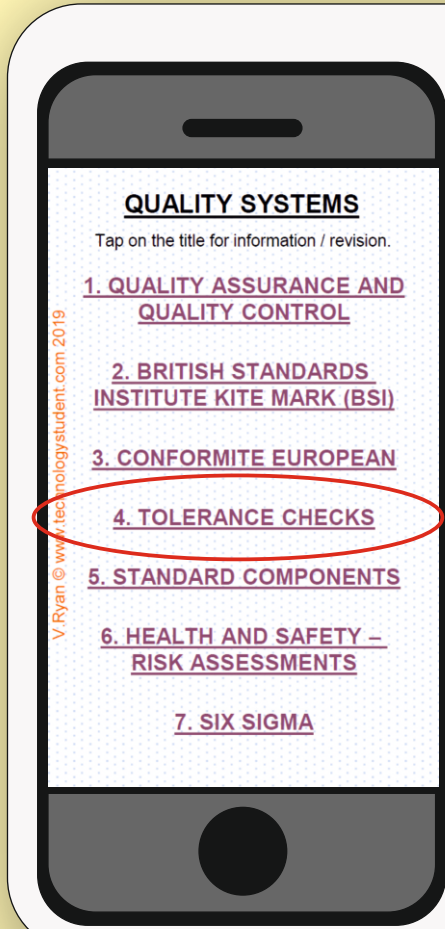


EUROPEAN
STANDARDS

WHAT DOES THE SYMBOL FOR BRITISH
STANDARDS MEAN?

WHAT DOES THE SYMBOL FOR EUROPEAN
STANDARDS MEAN?

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TOLERANCE CHECKS

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**ARE YOU READY?
USE THE MOBILE App!!**

1

WHAT IS A TOLERANCE CHECK?

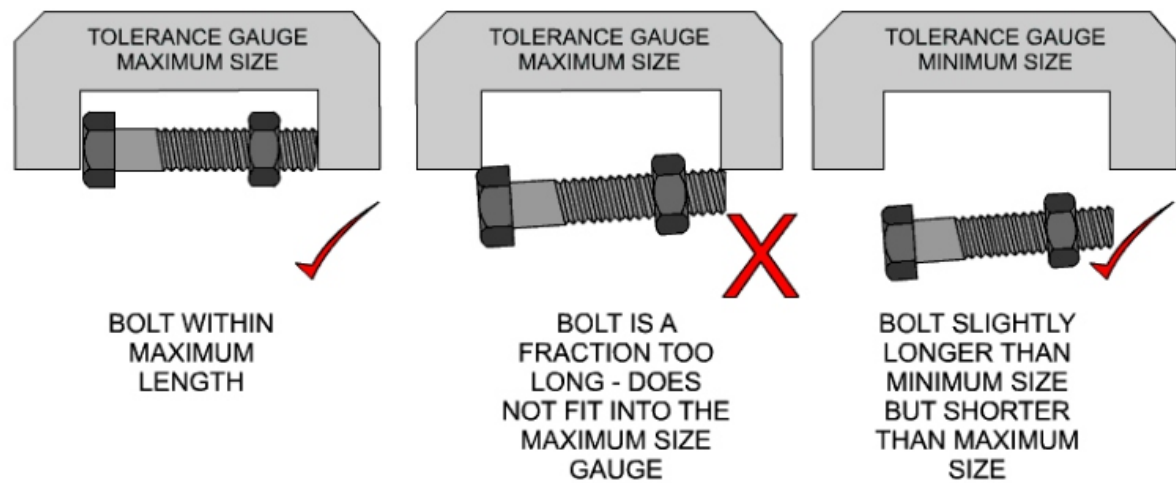
Include a sketch / diagram showing a practical application / example.

YOUR SKETCH / DIAGRAM.

2

THIS DIAGRAM SHOWS A TOLERANCE CHECK.

Explain what is happening, in the next box.

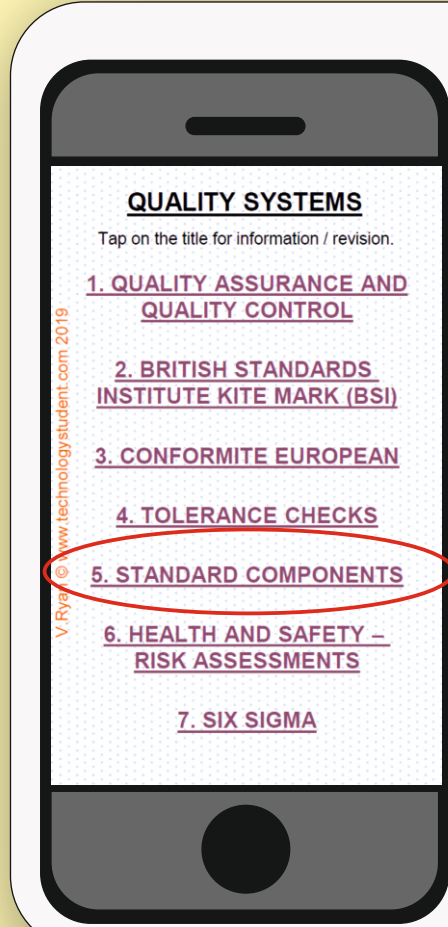


YOUR EXPLANATION

3

WHY ARE TOLERANCE CHECKS IMPORTANT?

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STANDARD COMPONENTS

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**ARE YOU READY?
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1

WHAT ARE STANDARD COMPONENTS?

Name standard components used by the construction industry and paste their images in the next box.
(You may need to search the internet for examples)

STANDARD COMPONENTS - THE CONSTRUCTION INDUSTRY. (YOUR IMAGES)

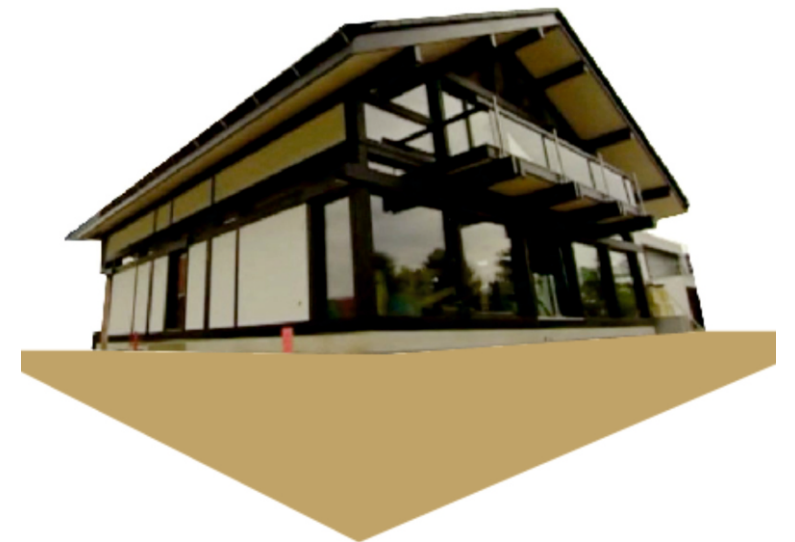
2

NAME FIVE STANDARD ELECTRONIC COMPONENTS AND DRAW THEM, OR THEIR SYMBOLS, BELOW.

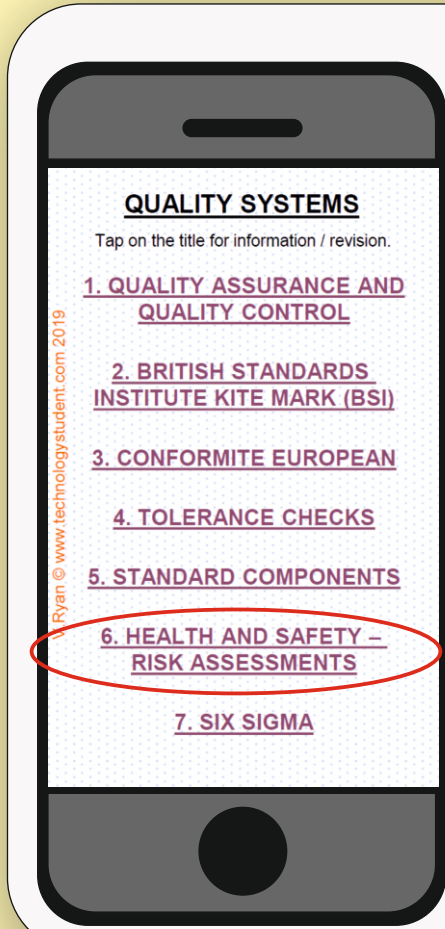
3

A 'HUF HAUS' IS MANUFACTURED FROM STANDARD COMPONENTS. WHAT IS A HUF HAUS?

A TYPICAL 'HUF HAUS'



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HEALTH AND SAFETY AND RISK ASSESSMENTS

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**ARE YOU READY?
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1

WHAT IS A RISK ASSESSMENT?

Include a brief description of a risk assessment applied to machine.

2

NAME THE THREE LEVELS OF 'RISK'.

3

HOW IS A RISK ASSESSMENT CARRIED OUT?

4

WHAT IS THE DIFFERENCE BETWEEN A 'RISK' AND A 'HAZARD'?

5

WHAT IS A CONTROL MEASURE? Include an example of a control measure.

HELPFUL LINK: https://www.technologystudent.com/mobapps/quality_systems_mobile_UPDATE1.pdf

SIX SIGMA

QUALITY SYSTEMS

Tap on the title for information / revision.

1. QUALITY ASSURANCE AND QUALITY CONTROL

2. BRITISH STANDARDS INSTITUTE KITE MARK (BSI)

3. CONFORMITE EUROPEAN

4. TOLERANCE CHECKS

5. STANDARD COMPONENTS

6. HEALTH AND SAFETY – RISK ASSESSMENTS

7. SIX SIGMA

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'QUALITY SYSTEMS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

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ARE YOU READY?
USE THE MOBILE App!!

1 BRIEFLY - WHAT IS SIX SIGMA?

2 NAME THE THREE COMPANIES THAT HAVE SUCCESSFULLY IMPLEMENT SIX SIGMA.

3 NAME THE FIVE ANALYTICAL PHASES OF SIX SIGMA.

4 COMPLETE THE TABLE BELOW, BY FILLING IN THE MISSING DATA.

SIGMA LEVEL	% OF DEFECTS / MILLION	No OF DEFECTS / MILLION
1		691,462
2	31%	
3	7%	66,807
4	0.6%	6,210
5	0.0233%	
6		3.4

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SIX SIGMA



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1

DESCRIBE EACH OF THE FIVE PHASES OF SIX SIGMA.

CUSTOMER / CLIENT INFLUENCE (*Define*)

PRODUCTION / PRODUCT MANUFACTURE (*Measure*)

PRODUCT AND MANUFACTURING ANALYSIS (*Analyse*)



PRODUCT AND WORKFORCE IMPROVEMENT (*Improve*)

IMPLEMENT CONTROL SYSTEMS (*Control*)

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