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# **CONTINUOUS IMPROVEMENT**

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## **THE IMPORTANCE OF CI**

THE BENEFITS OF  
CONTINUOUS IMPROVEMENT  
HISTORY AND BACKGROUND

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## **THE MANY FACES OF CONTINUOUS IMPROVEMENT**

CONTINUOUS IMPROVEMENT IN SOCIETY  
CONTINUOUS IMPROVEMENT  
WITHIN A COMPANY  
CONTINUOUS IMPROVEMENT  
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## **THE MANY PRACTICES OF CI**

PLAN-DO-CHECK-ACT  
THE JURAN APPROACH  
KAIZEN  
THE TAGUCHI APPROACH  
HEWLETT-PACKARD'S BEST PRACTICE

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## **CUSTOMER REQUIREMENTS FOR CI**

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THE MALCOLM BALDRIGE  
NATIONAL QUALITY AWARD  
THE UNITED STATES GOVERNMENT  
THE AUTOMOTIVE INDUSTRY

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FAILURE MODE AND EFFECTS ANALYSIS  
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THINGS TO KNOW

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PURPOSE

KEY ROLES

THINGS TO KNOW

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PURPOSE

KEY ROLES

THINGS TO KNOW

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PURPOSE

KEY ROLES

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# **BENCHMARKING**

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EMPLOY BENCHMARKING AS AN ELEMENT  
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WHOSE IMPROVEMENT WILL HAVE A  
SUBSTANTIVE AFFECT ON  
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ASSURE THAT THOSE WHO PERFORM  
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DEVELOP MEASUREMENTS THAT  
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KNOW HOW THE COMPANY'S OWN  
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BODY SHOP IS THE COMMUNICATION  
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PROCESS PLANNING ASPECT  
WORK MATERIAL CONDITION  
VALUE-ADDED CONCEPT

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## **PROCESS IMPROVEMENT POINTERS**

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MACHINING ASPECTS  
MACHINE TOOL ASPECTS  
SETUP AND WORKHOLDING ASPECTS  
PROCESS PLANNING ASPECT  
WORK MATERIAL CONDITION  
VALUE-ADDED CONCEPT

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SIX SIGMA AND  $C_{pk}$  MANUFACTURING  
FIRST PART/GOOD PART, ZERO DEFECT-  
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HIGH SPEED MACHINING (HSM)  
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**FILTER MEDIA PHYSICAL PROPERTIES**

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**QUICK DIE CHANGE**

**AUTOMATION**

**PRESS, DIE AND OPERATOR PROTECTION**

**MISCELLANEOUS**

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# FINISHING

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## FINISHING/PAINTING PROCESSES AND LIQUID COATINGS

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MONEY AND MANPOWER  
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METHODS  
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## PAINT PRETREATMENT AND PAINTING SYSTEMS

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PAINT PRETREATMENT  
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USING ELECTROCOAT AS A PRIMER FOR  
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**CHOOSING THE PROPER METHOD**

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**HONING**

**HONING PROCESS**

**ABRASIVE SELECTION**

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DEBURRING AND SURFACE CONDITIONING  
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IMPROVING PRECISION IN FORGING BY INTEGRATING TOOL HOLDERS INTO A PRESS RAM GUIDING SYSTEM

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**WHY IS THERE A GREATER INCIDENCE  
NOW?**

**TYPES OF CUMULATIVE TRAUMA  
DISORDERS**

**TYPICAL EXPOSURES**

**CONTRIBUTING FACTORS  
TECHNIQUES FOR REDUCING CUMULATIVE  
TRAUMA INJURIES  
STRESSFUL POSTURES ASSOCIATED WITH  
CUMULATIVE TRAUMA DISORDERS  
STRESSFUL POSTURES FOR PROLONGED  
OR REPEATED EXERTIONS  
HAND TOOLS**

# **LAYOUT SAFETY PLANNING**

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TYPES OF LAYOUT PROJECTS

WHO IS RESPONSIBLE FOR WHAT?

PROJECT PLANNING

MATERIAL FLOW DESIGN

CHOOSING THE FLOW METHOD

ANALYZING MATERIAL FLOW

SPACE REQUIREMENTS

AISLE DESIGN FACTORS

COMPUTER SOFTWARE

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# **PRE-OPERATIONS SAFETY PLANNING CHECKLISTS FOR INDUSTRIAL FACILITIES**

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## **MAKING MACHINES SAFER**

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GET THE RIGHT GUARD OR DEVICE

MACHINE SAFEGUARDING

GUARDS AND DEVICES FOR MOVING  
PARTS

GUARDS VERSUS PRODUCTION

SUPPLEMENTARY PROTECTIVE METHODS

COST OF MACHINE ACCIDENTS

MACHINE MAINTENANCE

GOOD HOUSEKEEPING

PERSONAL PROTECTIVE EQUIPMENT

SELLING MACHINE SAFETY TO THE  
EMPLOYEE

SUPERVISION

MACHINE SAFETY TIPS

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## **JOB SAFETY ANALYSIS**

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JSA BENEFITS

DOING THE JSA

LOCKOUT / TAGOUT

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## **PRODUCTS LOSS CONTROL**

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PRODUCT SAFETY PROGRAM

PRODUCT SAFETY COMMUNICATIONS

PRODUCT RECALLS

PRODUCT SAFETY PROGRAM AUDITS