SOLMAN SOLUTIONS FOR MANUFACTURING

PRESENTATION



SOLMAN HUNGARY KFT. · QUALITY MANAGEMENT

TRAINING AND WORKSHOPS

ENGINEERING SERVICES IN QUALITY MANAGEMENT, METROLOGY AND DESIGN & MANUFACTURING

AUTOMOTIVE · AEROSPACE · DEFENCE

TRAINING AND WORKSHOPS FROM ONE SOURCE

SOLMAN SOLUTIONS FOR MANUFACTURING



THE SLIDES ARE THERE. DOES THE KNOWLEDGE STAY?

Every hour spent on training must pay off quickly. Before the training our experienced specialists clarify your team's challenges, and we build the material on the case studies gathered. Participants feel the training is about them, and it sticks much better.

HOW WE TEACH

- At least 40% practice
- Examples from your products
- Training room or next to the line
- Stories and humour, not slides read aloud
- Written exam
- Certificate in your name

40%
practice at least

2–6
day courses

10
participants max. per group

More information

OUR TRAINING PORTFOLIO

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01

CORE TOOLS
APQP, PPAP, FMEA, SPC, MSA

02

AUDITS, SYSTEMS
IATF 16949, VDA 6.3, 6.5

03

PROBLEM SOLVING
8D, complaint handling

04

QUALITY INSPECTOR
next to the line

05

COORDINATE METROLOGY
CMM basic and advanced

06

MEASURING ARM
various brands

07

GD&T AND GPS
drawings, tolerances

08

METROLOGIST
gauge manager

09

ON-SITE WORKSHOP
next to the line

10

EXAM
written, at the end

11

CERTIFICATE
personal, numbered

40%

practice in every course

WHEN TO CALL US?

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AUDIT · PROJECT · CMM

WHEN THE TEAM HAS TO SPEAK THE SAME LANGUAGE

A customer or certification audit is coming, and internal auditors must know what IATF 16949 and VDA 6.3 expect. New colleagues arrive, a project starts, and the customer expects APQP, PPAP, FMEA. Or the new CMM arrived, and three colleagues measure three results.

TYPICAL SITUATIONS

- Before an audit
- New colleagues
- New project
- New CMM
- Disputed measurements
- Recurring defect

THE SOLUTION

- Training tailored to your team and products, with practice and an exam.

More information

CORE TOOLS: APQP, PPAP, FMEA, SPC, MSA

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CORE TOOLS

THE LANGUAGE YOUR CUSTOMER SPEAKS

In core tools training the team learns what the customer expects in every project: product development steps, the approval package, failure mode analysis, statistical process control and measurement system analysis, on examples from their own products.

TOPICS

- APQP
- PPAP
- FMEA
- SPC
- MSA
- Practical examples

DURATION

- Core tools courses last 3 days and end with a written exam.

More information

AUDITS AND SYSTEMS

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THE TEAM KNOWS THE AUDITOR'S QUESTIONS

IATF 16949 internal auditor, VDA 6.3 process audit and VDA 6.5 product audit training. Participants learn the requirements and practise audit questions on their own processes, so the audit is not a campaign.

TOPICS

- IATF 16949 internal auditor
- VDA 6.3
- VDA 6.5
- Audit questions
- On your own process
- Preparation

DURATION

- The IATF 16949 internal auditor course lasts 5 days.

More information

COMPLAINTS AND PROBLEM SOLVING

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8D · COMPLAINTS

WHEN THE SAME DEFECT COMES BACK A THIRD TIME

The team needs a method, not more firefighting. We teach structured problem solving, complaint handling and quality inspector skills on the cases of your own complaints, in small groups.

TOPICS

- Problem solving techniques
- Complaint handling
- 8D
- Quality inspector
- Defect catalogue
- Limit samples

GROUP SIZE

- The problem solving techniques course has at most 8 participants.

More information

COORDINATE METROLOGY: CMM, ARM, GD&T

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A MEASUREMENT IS ONLY AS GOOD AS ITS OPERATOR

From reading drawings through form and position tolerances and coordinate systems to the measuring strategy, then machine design, calibration and the basics of programming. On Hexagon and Trimos machines in our training room, or on your machine on site.

TOPICS

- GD&T and GPS (2 days)
- CMM basic and advanced
- Measuring arm
- Various brands
- PolyWorks
- Programming basics

ACCREDITED BACKGROUND

- Backed by the daily routine of our NAH-accredited lab (NAH-2-0343/2023).

More information

GAUGE MANAGER AND METROLOGIST

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WHO DECIDES IF THE GAUGE IS FIT?

The full gauge manager and metrologist programme teaches how to run a gauge register, calibration scheduling and certificate evaluation, and how to decide whether a device is fit for the task.

TOPICS

- Gauge register
- Calibration scheduling
- Certificate evaluation
- Measurement uncertainty
- MSA
- Audit preparation

DURATION

- The full programme lasts 6 days and ends with a personal, numbered certificate.

More information

HOW WE WORK

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FROM REQUIREMENT TO CERTIFICATE

1. **NEEDS ASSESSMENT**
   Who to train, which topic, what goal.
2. **CLARIFYING CHALLENGES**
   Process, products, case studies.
3. **TAILORED MATERIAL**
   Just what is necessary and sufficient.
4. **TRAINING AND PRACTICE**
   Room or line, at least 40% practice.
5. **EXAM, CERTIFICATE**
   Written exam, personal certificate.

More information

SOLMAN SOLUTIONS FOR MANUFACTURING

WHY SOLMAN?

25+
years in automotive

4000+
successful projects

500+
satisfied customers

98%
customer satisfaction

SOLMAN HUNGARY KFT.

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Company reg. no.: 03-09-137569

CERTIFIED MANAGEMENT SYSTEMS

NAH-2-0343/2023
KALIBRÁLÓLABORATÓRIUM

KEY REFERENCES

ABB · ACPS · ADIENT · ADMATIS · AGC · AMAZONE · ANTOLIN · AQ INDUCTIVES · AUTOFLEX-KNOTT · BMW · BORGWARNER · BOSCH · BRIDGESTONE · BSM · BYD · CATERPILLAR · CIE SALGGLAS · CLARION · DUVENBECK · ECKERLE · ELRINGKLINGER · FEHRER · FLABEG · FLAMESPRAY · GE · GE AVIATION · GESTAMENARM · GESTAMP · HAJDU AUTOTECHNIKA · HANON · HBPO · HI-LEX · HILTI · IBV · JOYSON · KIRCHHOFF · KÉSZ CSOPORT · KNIPPING · KNORR BREMSE · KÖNIG · KÖRBER · KUKA · LOTTE · MAGNA · MAGNUS AIRCRAFT · MAGYARMET · MAHLE · MERCEDES · MOTHERSON · MUSASHI · NIDEC · OERLIKON · PLASTIC OMNIUM · PRIDGEON&CLAY · Q AUTOMOTIVE · SAMSUNG · SANOH · SIIX · SIMON PLASTIC · SISECAM · SMP · STADLER · STANLEY · STEELFLEX · SUPRAJIT · THYSSENKRUPP · TOYO SEAT · VAMAV · VIDEOTON CSOPORT · WAREMA · WERNERCO · WOCO · XYLEM · YANFENG · ZARGES

OUR SERVICES

QUALITY MANAGEMENT

- QUALITY INSPECTION
- INTERIM MANAGER / ENGINEER
- PROCESS IMPROVEMENT
- TRAINING / WORKSHOP

METROLOGY

- CONTRACT PROGRAMMING
- CONTRACT MEASUREMENT
- GAUGE CALIBRATION
- METROLOGY EQUIPMENT SALES

DESIGN AND MANUFACTURING

- REVERSE ENGINEERING
- FIXTURE DESIGN AND MANUFACTURING
- CONTAINER DESIGN AND MANUFACTURING

ADDITIONAL SERVICES

- GAUGE MANAGEMENT
- TEST LABORATORY MANAGEMENT
- FAILURE ANALYSIS (CT AND X-RAY)

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