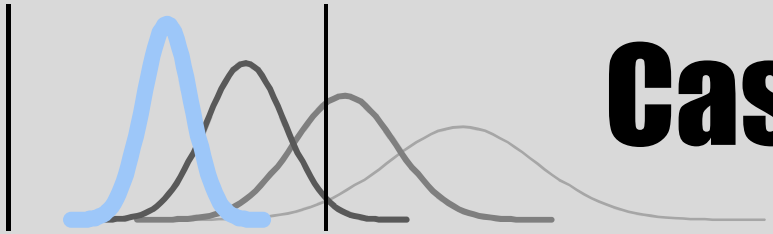

Cash Flow Navigátor

Consulting Kft.

Training program

Tel.: +36 30 650 7588
info@cashflownavigator.hu
Skype: nfeher01

A Cash Flow Navigátor Consulting Kft.

Company Registration number.: 20 09 066702

Tax number: 13443715-2-20

Core activity: Business Consulting

Established: 2005

Our mission:

To provide help and support in efficiency improvement and problem solving activities to the small and medium sized companies in the Western Hungarian region to improve Their customer satisfaction by providing better, faster and cheaper products and services.

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Available trainings

- Excel training
- 7 basic tools in problem solving
- Lean basics
- Advanced Lean
- Lean Six Sigma Yellow Belt
- Six Sigma Green Belt
- Six Sigma Black Belt
- TRIZ for Engineers

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Available Trainings

- Project management basics
- Quality in a nutshell
- FMEA
- Measurement System Analysis (Gage R&R)
- Process Capability Analysis (Cp; Cpk; Cmk)
- Sampling, Comparing Sampling Methods
- DOE – Design of Experiment
- Statistical Process Control (SPC)

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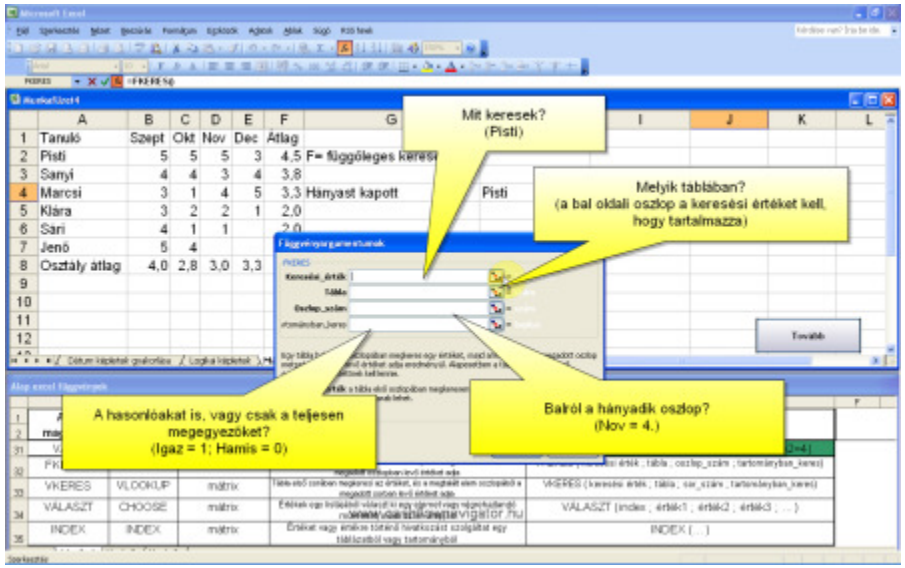
Excel Training in Several Modules

To whom: Anyone being a starter or interested in some tricks only

Duration: 4-8 hrs

- From the basics to pivot tables
- Statistical calculations in excel
- Solver



1 hour long training video for free!!!

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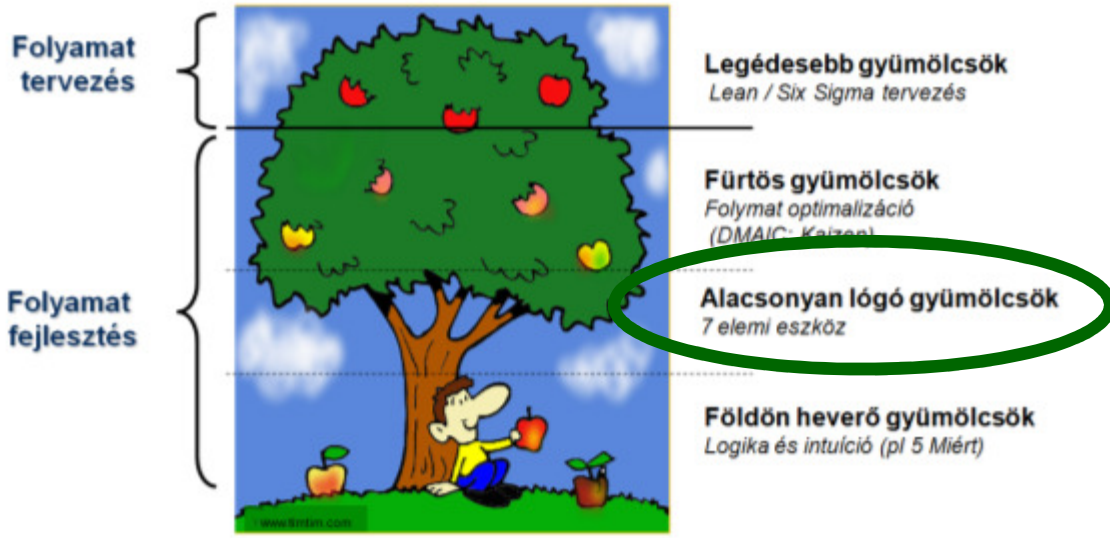
7 Basic Tools in Practice

To whom: instructors, technicans, engineers, lean or six sigma team members

Duration: 6-8 hrs

- 7 basic tools
- 5 why method
- 3MU4M analysis
- The basics of the PDCA cycle



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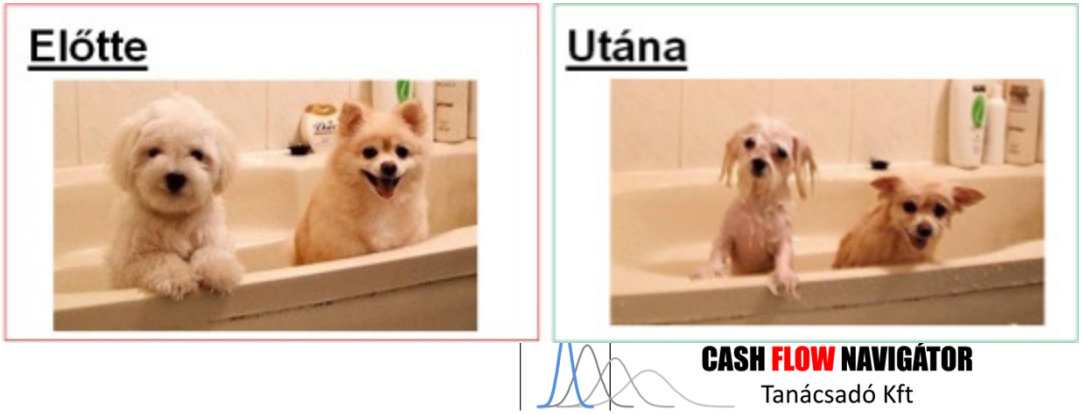
Lean Basics

To whom: instructors, technicans, engineers, lean or six sigma team members

Duration: 3-5 days

- Lean history
- 3 MU and the 7+3 wastes
- Achiving basic stability(5S, visualisation, standard work)
- Value stream mapping
- Lean tools briefly

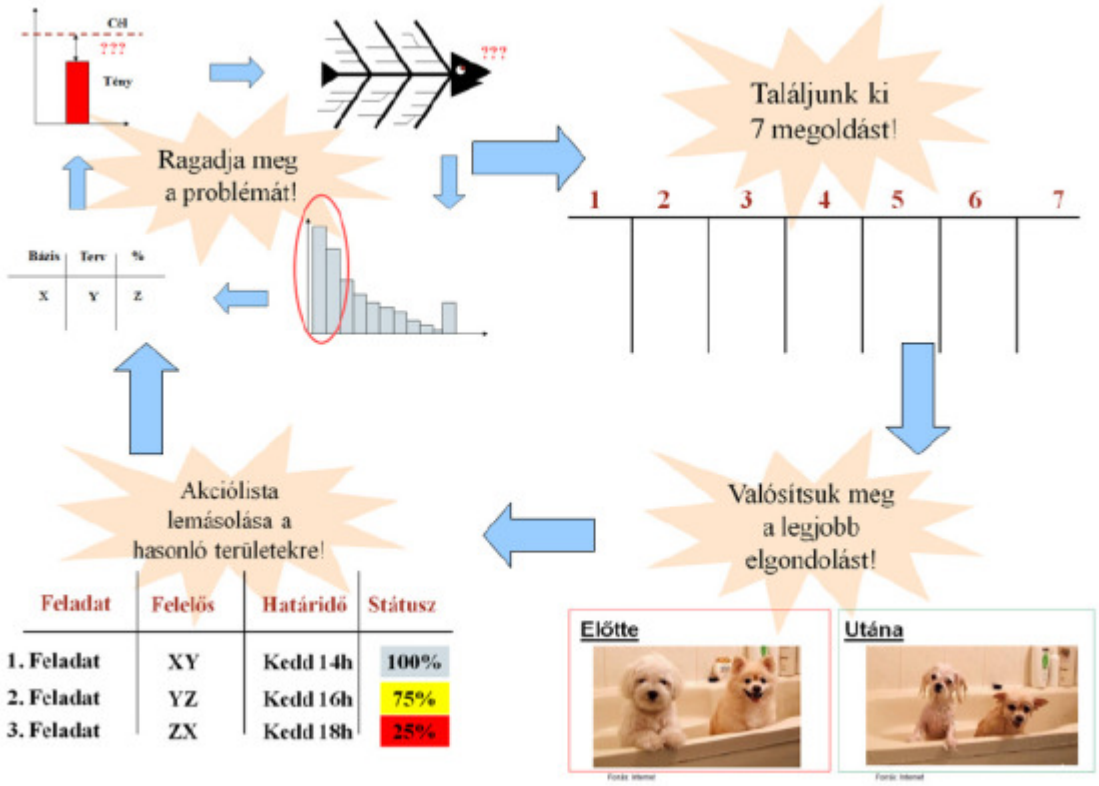


Advanced Lean

To whom: instructors, technicans, engineers, lean or six sigma team members

Duration: 3-5 days

- Lean tools in practice



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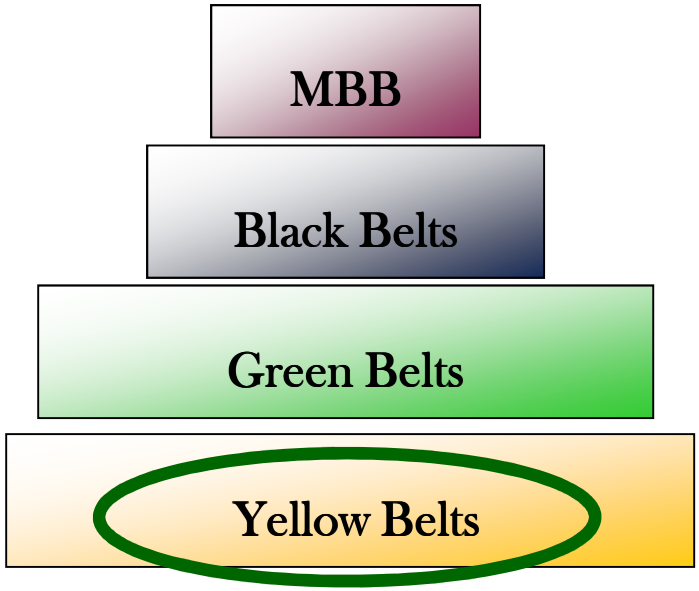
Six Sigma Yellow Belt

To whom: instructors, technicans, engineers, lean or six sigma team members

Duration: 1 day

- Problem definition
- 7 basic tools
- DMAIC process
- Basic statistics



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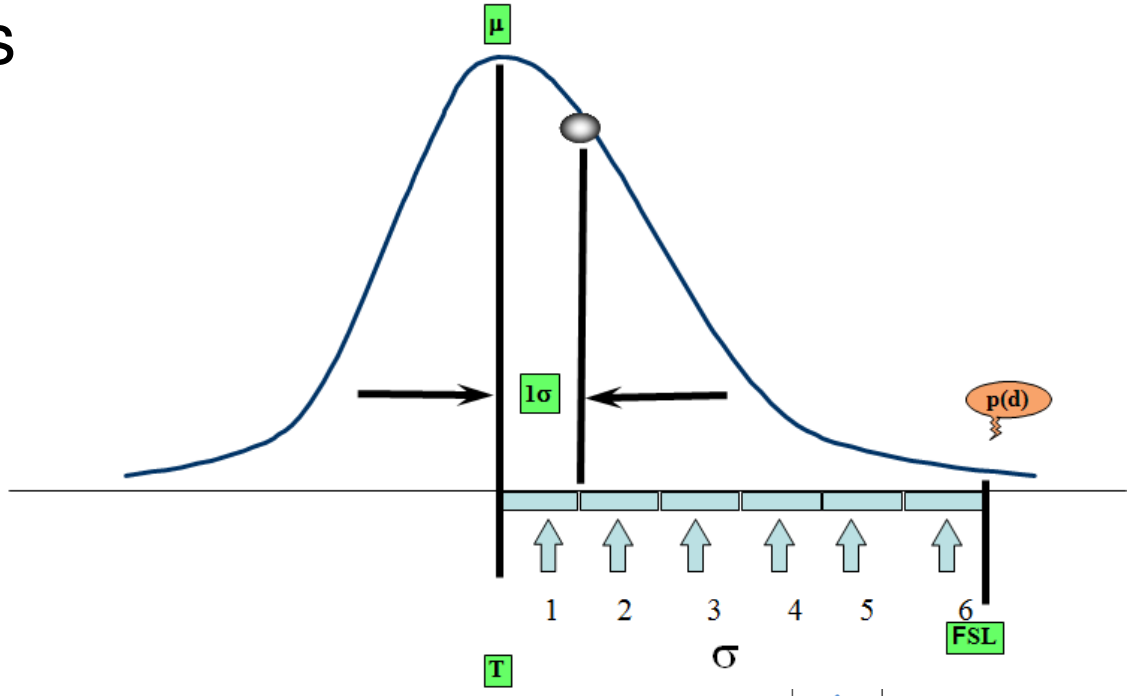
Six Sigma Green Belt

To whom: Engineers, technicians

Duration: 5-10 days

- DMAIC process
- Preparation of a training project and achiving sustained results



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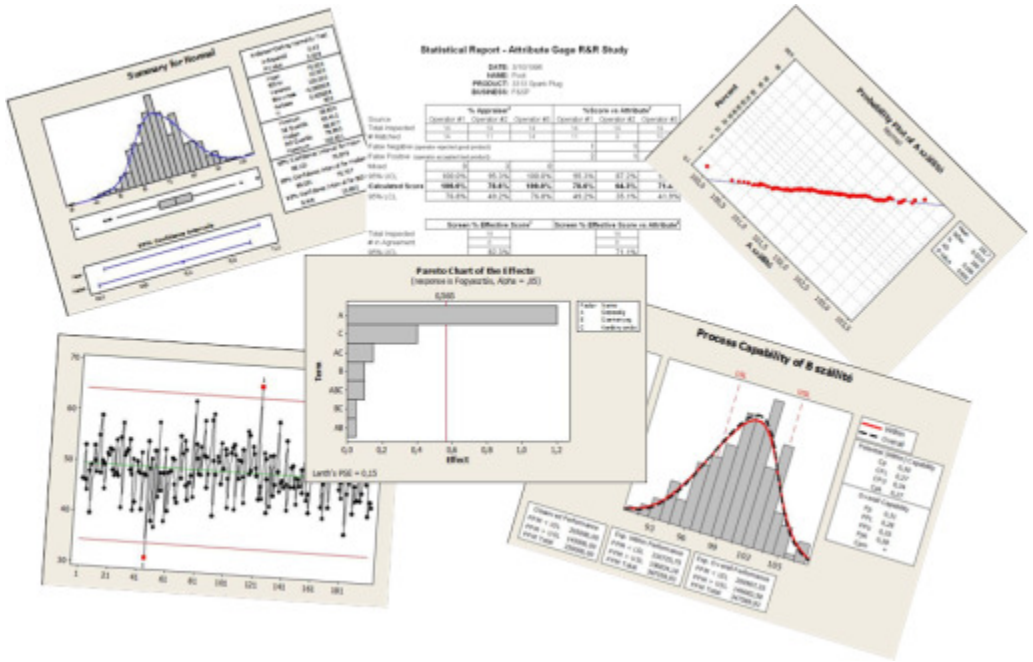
Six Sigma Black Belt

To whom: Six Sigma Green Belts

Duration: 2 – 4 weeks

- Ability to train and mentorSix Sigma Green Belts
- Solving complex projects with statistical tools and methods



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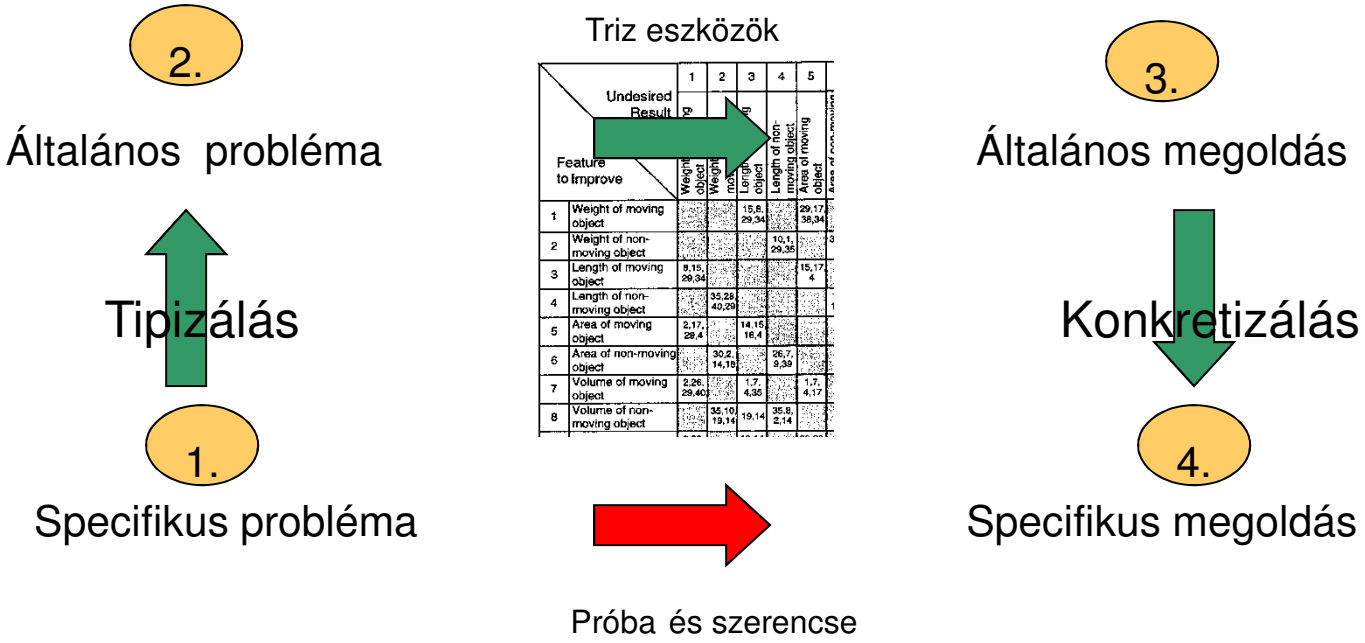
Triz for Engineers

To whom: Engineers, from six sigma green belt certification

Duration: 1- 3 days

- Triz basics in problem solving
- Triz tools in practice



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Project management basics

To whom: Engineers, problem solvers, project managers

Duration: 1- 2 days

- Basic tools and technique of project management
- From planning Your garden to Apollo mission

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Quality in a nutshell

To whom: Problemsolvers, people responsible for quality -> everyone ☺

Duration: 4 hrs

- Quality basics and the house of quality
- Prevention, detection
- Tools and actions
- The 8 steps of problem solving

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FMEA

To whom: Problemsolvers, people responsible for quality -> everyone ☺

Duration: 4 hrs

- Proactive vs reactive problem solving
- Failure mode and effect
- FMEA structure and usage
- RPN and RPN Pareto
- „Living document”

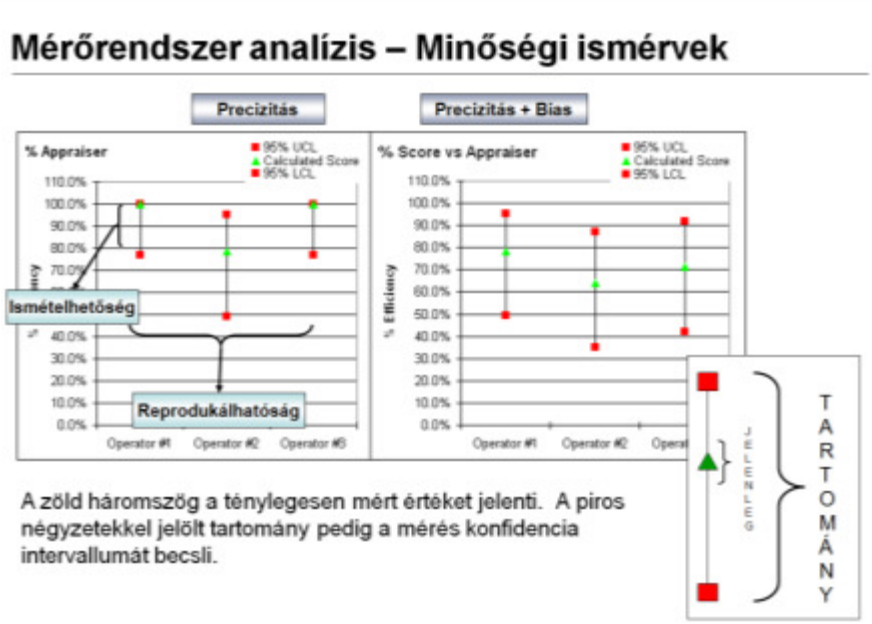
Sev	Occ	Det	RPN	Eredmény	Akció
1	1	1	1	Ideális helyzet	Nincs
1	1	10	10	Alalpos biztonság	Nincs
10	1	1	10	Hiba nem éri el a vevőt	Nincs
10	1	10	100	A hiba eléri a vevőt	Detektálást fejl.
1	10	1	10	Gyakori előf., detektálható, költséges	Folyanatot fejl.
1	10	10	100	Gyakori előf.. , eléri a vevőt	Előbb det. Aztán foly. Fejl.
10	10	1	100	Gyakori előf. Nagyobb hatás	Folyamat fejl.
10	10	10	1000	Balhé van!	Előbb det. Aztán foly. Fejl.

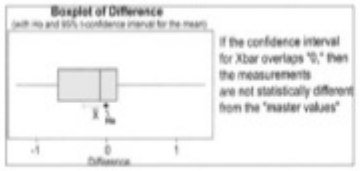
Measurement System Analysis(MSA / Gage R&R)

To whom: Technicians, engineers, problem solvers

Duration: 6 hrs

- Qualitative MSA (normal plus kappa method)
- Quantitative MSA

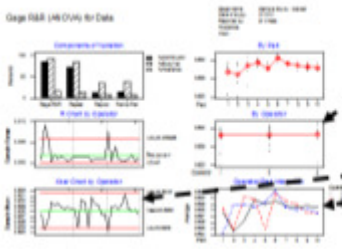




Bias:

A mért értékek szisztematikusan eltérnek a valós adatoktól.

Hipotézis teszttel egyszerüen ellenőrizhető, de következtetni lehet a Gage R&R eredményéből is



Operátorra vezethető probléma:
Nem vízszintes egyenes

Eszközre vezethető probléma:
Eltérő mintázat

1 hour training video for free (analysis in minitab)!!!

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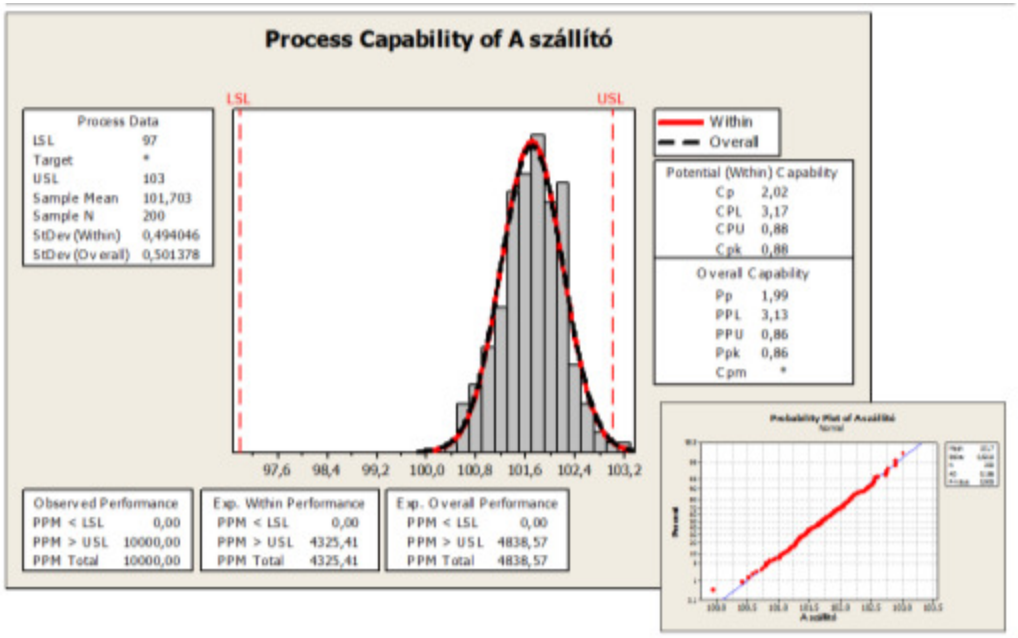
Process Capability Analysis(Cp / Cpk)

To whom: Technicians, engineers, problem solvers

Duration: 6 hrs

- Qualitative Cp / Cpk
- Quantitative Cp / Cpk



1 hour training video for free (analysis in minitab)!!!

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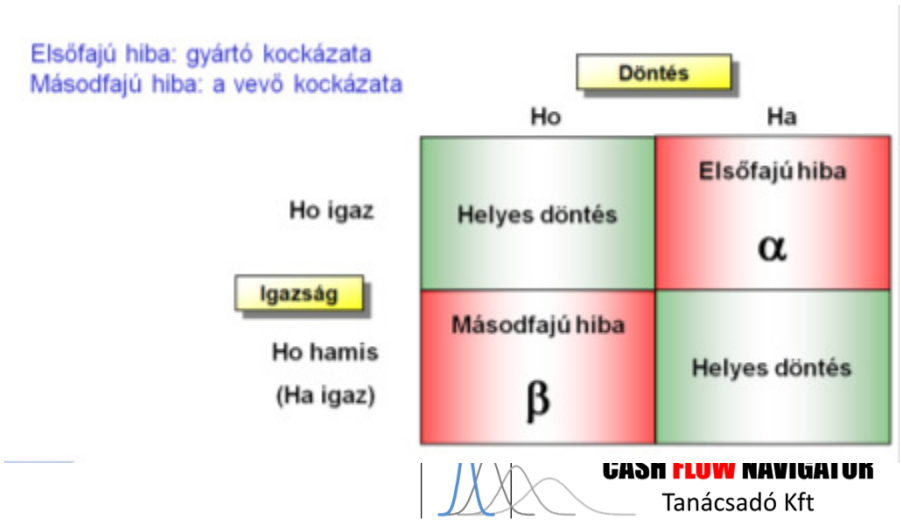
Sampling Methods

To whom: Quality, SQA and Engineering technicians, engineers

Duration: 6 hrs

- Probability calculation basics
- Sample size vs. Alfa, Béta risk and delta
- Central limit theorem
- Comparison of sampling methods



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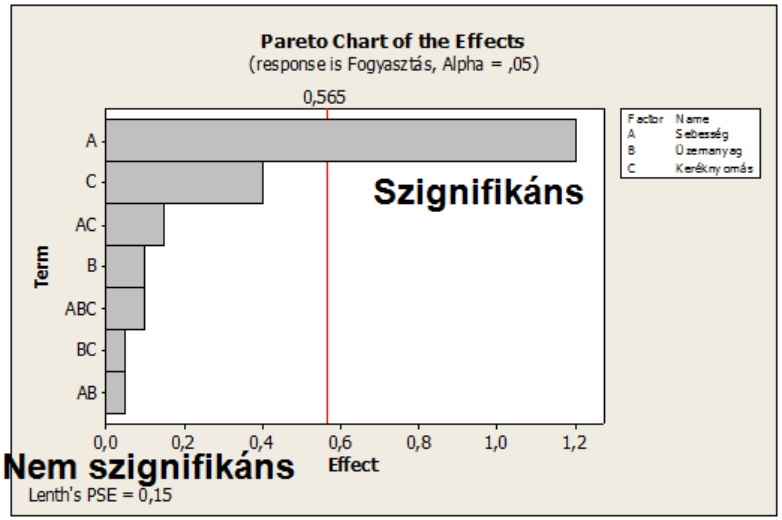
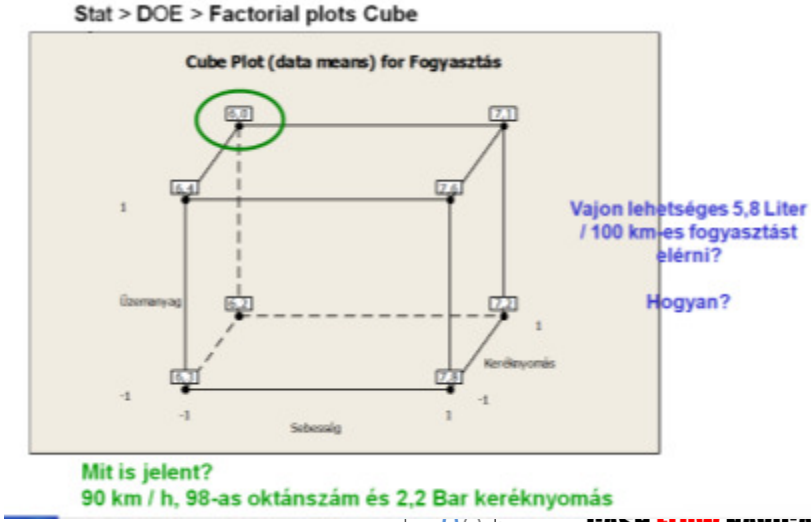
Design of Experiment (DOE)

To whom: Quality people and engineers, problemsolvers

Duration: 6 - 8 hrs

- DOE levels (screening, characterization, optimization)
- DOE planning and evaluation
- Y = f (x) formula definition and optimization





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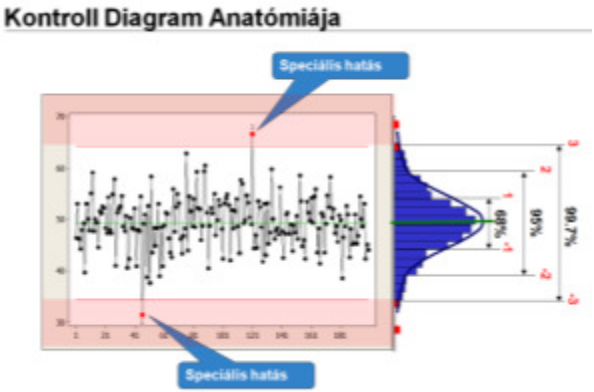
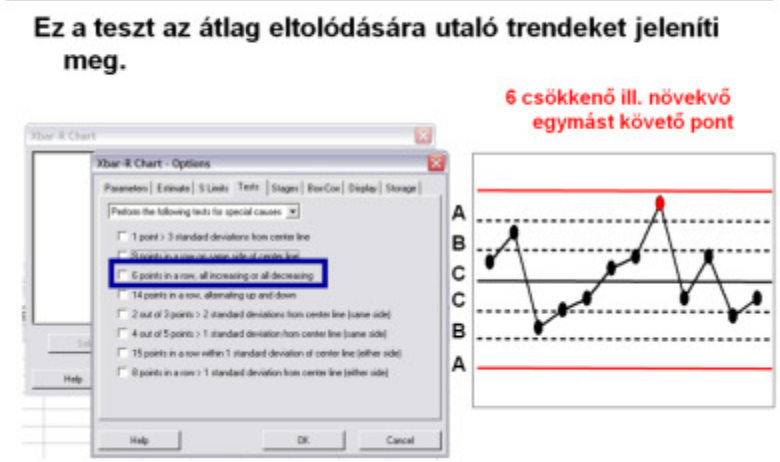
Statistical Process Control(SPC)

To whom: Problemsolvers, people responsible for quality -> everyone ☺

Duration: 4 hrs

- Common cause, special cause variation
- SPC basics
- SPC for qualitative and quantitative data
- SPC pattern analysis





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Zero Defect Manufacturing– Poka Yoke

To whom: Problemsolvers, people responsible for quality -> everyone ☺

Duration: 4 hrs

- Are defects inevitable?
- Failure types and sources
- 5 best poka yoke ideas
- Poka yoke examples

Hibák forrása

1. Feledékenység okozta – nem meghúzott csavar
2. Félreértés okozta hibák – tolni, vagy húzni típusú ajtó
3. Azonosítási nehézségekből adódóak – 100 db-ot 1000 db-nak olvasunk
4. „Amatőrök" hibái – új dolgozó nem ismeri a folyamatot
5. Szándékos hibák – piros lámpánál átkelni a zebrán
6. Véletlen hibák – elgondolkozva véletlenül lelépni a zebrára piros lámpánál
7. Lassúság okozta hibák – tanuló sofőr
8. Standard hiánya miatti hibák – mérési pontatlanság
9. Meglepetés hibák – Gép meghibásodása előzetes jelzés nélkül
10. Akaratlagos hibák – Szabotázs, bűnözés

Hibák előfordulásának sok oka lehet, de majdnem mindet ki lehet küszöbölni, ha feltárjuk a gyökérokát és megfelelő Poka Yoke módszerrel látjuk el a folyamatot

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Thank You!

In case of interest please ask for a detailed training schedule!

Fehér Norbert
LEAN SIX SIGMA professional
++ 36 30 650 7588
info@cashflownavigator.hu
www.cashflownavigator.hu
Skype: nfeher01

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Tanácsadó Kft