

## Training Catalog 2024



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*“each more than 20 years of experience in teaching”*

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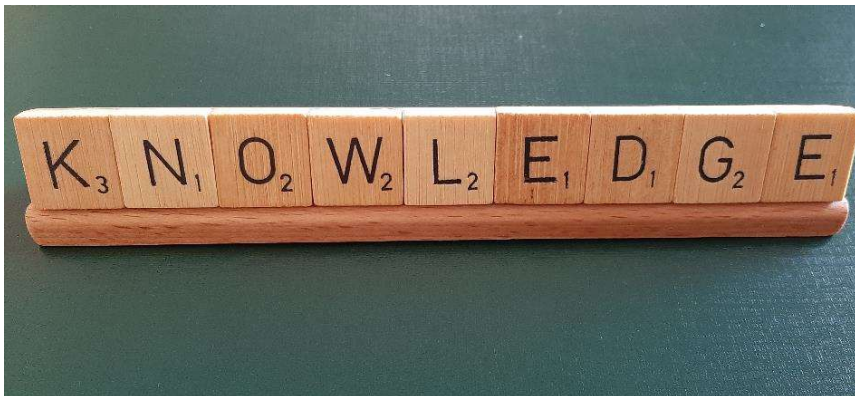
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# Q1 Manufacturing Site Assessment

Q1 = Quality recognition status by Ford

## Target Audience:

- Employees of all levels and areas, particularly product development, manufacturing, logistics and quality, with responsibility for product quality, process planning, service or part release activities.
- Experienced employees & newcomers, who want to gain an overview of the requirements to attain or maintain the quality recognition status by Ford.

**Duration:** classroom training 8h / online Training 3x 2h

## Objectives:

At the end of the course delegates will have an overview about:

- Basic prerequisites necessary to achieve part release submission level 1 (self-certifying).
- Related requirements as well as scoring system which rates the supplier site.

## Contents:

- Q1 definition and benefits of a Q1 certified supplier site
- Q1 eligibility aspects
- Q1 categories and related metrics
- Q1scoring system (point awarding within the Q1 categories)
- Customer endorsement to attain Q1 status
- Q1 codes
- Contents of Q1 MSA (**M**anufacturing **S**ite **A**ssessment)

## Methods:

Presentation, examples, exercise, interactions and discussions

## Prerequisites:

none

## Necessary materials:

Pocket calculator

## Notes:

Open courses (internal and external delegates) are offered as presence or live online events.

# Q1 MSA Dates 2024

	online 3 x 2h	classroom 8h
January		
February		
March	18.-19.03.2024	
April		
May		22.05.2024
June		
July		
August	05.08-06.08.2024	
September		
October		
November	4.-5.11.2024	
December		

## Price: 1.570 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# APQP/PPAP Requirements

APQP = **A**dvanced **P**roduct **Q**uality **P**lanning  
 PPAP = **P**roduction **P**art **A**pproval **P**rocess

## Target Audience:

- Employees at all levels and from all areas (internal and suppliers) – especially from Product Development, Manufacturing, Purchasing and Quality – who are responsible for quality of products, capacity, services and production part release activities.
- Experienced employees & new comers wishing to gain an overview of automotive quality requirements.

**Duration:** classroom training 8h / online Training 3x 2h

## Objectives:

At the end of the course delegates will have an overview about:

- The collectivity of all Ford requirements to the Suppliers in scope of new product and / or production development.

## Contents:

- Background, history, and philosophy of ISO/TS 16949 / IATF 16949,
- Contents of "AIAG 6-Pack",
- Benefit and use of a well-engineered advanced quality planning,
- Structure and contents of project management on vehicle level,
- Structure and contents of project management on system- and component level,
- Overview of quality and capacity requirements to be applied in scope of product- and/or process development,
- Meaning and contents of these quality and capacity requirements especially of all Deliverables and related Expectations of Ford's APQP reporting tool "Schedule A",
- Responsibilities and target dates,
- Dependences and relationships amongst these quality requirements.

## Methods:

Presentation, examples, project work, and discussions

## Prerequisites:

None

## Necessary materials:

None

## Notes:

Open courses (internal and external delegates) are offered as presence or live online events.

# APQP/PPAP Dates 2024

	online 3 x 2h	classroom 8h
January	15.-16.01.2024	
February		
March		
April	15.-16.04.2024	9.04.2024
May		
June		
July	01.-02.07.2024	
August		13.08.2024
September	16.-17.09.2024	
October		
November	18.-19.11.2024	
December		

## Price: 1.570 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# GPDS **S**upplier **E**ngagement **P**rocess Schedule A / eAPQP / Sub-Tier Supplier APQP

GPDS = **G**lobal **P**roduct **D**evelopment **S**ystem  
eAPQP = **e**lectronic **A**dvanced **P**roduct **Q**uality **P**lanning

## Target Audience:

- Employees at all levels and from all areas (internal and suppliers) – especially from Product Development, Manufacturing, Purchasing and Quality – who are responsible for quality of products, services and production part release activities.
- Experienced employees & newcomers who want to understand Ford's requirements regarding APQP/PPAP readiness status reporting.

**Duration:** classroom training 6h / online Training 2x 2h

## Objectives:

At the end of the course delegates will understand:

- The Ford GPDS Supplier Engagement Process,
- The eAPQP application,
- The usage of Health Charts,
- The sub-tier Supplier APQP/PPAP readiness tracking document.

## Contents:

- Definition, principles and benefits of the "Supplier Engagement Process",
- "Priority Supplier" definition and assessment criteria,
- "On-Site Evaluation" definition, topics and plan,
- Reporting forms,
- Usage of Ford's eAPQP reporting tool "Schedule A",
- Handling of part related Health Charts,
- Deliverable rating criteria,
- Sub-tier Supplier APQP/PPAP readiness tracking document and usage,
- Sub-tier Supplier key areas of focus and relating APQP/PPAP Readiness Deliverables.

## Method:

Presentation, examples, and discussions

## Prerequisites:

"APQP/PPAP Requirements" training contents are assumed as known.

## Necessary materials:

None

## Notes:

Open courses (internal and external delegates) are offered as presence or live online events

# GPDS SEP Schedule A eAPQP Dates 2024

	online 2 x 2h	classroom 6h
January	17.01.2024	
February		
March		
April	17.04.2024	10.04.2024
May		
June		
July	03.07.2024	
August		14.08.2024
September	18.09.2024	
October		
November	20.11.2024	
December		

## Price: 820 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# ePSW Part Submission Warrant

## electronic Part Submission Warrant

### Target Audience:

- Employees at all levels and from all areas (internal and suppliers) – especially from Product Development, Manufacturing, Purchasing and Quality – who are responsible for quality of products, capacity, services and production part release activities.
- Experienced employees & new comers who want to understand the Ford requirements regarding ePSW.

### Duration:

Classroom training 3h / Online-Training 2,5h

### Objectives:

At the end of the course delegates will:

- Understand the structure and contents of ePSW database
- Know how part release activity is realized in ePSW database

### Contents:

- Meaning and benefits of ePSW
- Access to ePSW
- Part release routine in ePSW
- The 3 ePSW screens and related sections
- PPAP checklists
- Types of sub-tier suppliers and types of PPAP packages
- Overview of PPAP phases and related PPAP-elements
- PPAP evidences of completion
- PPAP approval routine depending on submission level

### Methods:

Presentation, examples, project work, and discussions

### Prerequisites:

The contents of „APQP/PPAP Requirements“ training are assumed as known.

### Necessary materials:

None

### Notes:

Open courses (internal and external delegates) are offered as presence or instructor-led online events.

## ePSW Dates 2024

	online 2,5h	classroom 3h
January	24.01.2024	
February		
March		
April	24.04.2024	
May		
June	19.06.2024	
July	31.07.2024	
August		
September		
October		
November	27.11.2024	
December		

### Price: 820 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# eCAR eelectronic Capacity Analysis Report (for Tier 1 suppliers)

Capacity Analysis based on DATABASE – for Capacity Analysis based on EXCEL see “CPA” training

## Target Audience:

- Employees at all levels and from all areas – especially from Product Development, Manufacturing, Purchasing, Sales, Material Planning & Logistics and Quality – who are responsible for capacity planning, quality of products, services, and production part release activities.
- Experienced employees & new comers who want to understand Ford's requirements regarding capacity planning analysis.

**Duration:** classroom training 4h / online Training 2x 2h

## Objectives:

At the end of the course delegates will:

- Understand Ford requirements of capacity analysis
- Be able to calculate possible capacities and assess degree of capacity utilization of manufacturing facility
- Be able to register as certified capacity planner in Ford's systems

## Contents:

- basics of capacity planning analysis,
- timing for capacity demonstration,
- capacity analysis related terms and abbreviations,
- capacity requirement sources,
- structure of eCAR database
- OEE calculation,
- Capacity Analysis Report completion,
- required actions in GCP (**G**lobal **C**apacity **P**lanning) and MCPV (**M**anufacturing **C**apacity **P**lanning **V**olumes),
- interpretation of capacity analysis output,
- transferring capacity analysis figures into Ford's adopted PSW form,
- Certification and registration process for **Certified Capacity Planners**.

## Methods:

Presentation, examples, and discussions

## Prerequisites:

It is strongly recommended to participate in “APQP/PPAP Requirements” training before, as eCAR is part of these requirements and builds on them. Only all modules together will explain the complete relationships of all production part release requirements and how to document them.

## Necessary materials:

None

**Notes:** Open courses (internal and external delegates) are offered as presence or live online events.

## eCAR Dates 2024

	online 2 x 2h	classroom 4h
January	22.01.2024	
February		
March		
April	22.04.2024	11.04.2024
May		
June	17.06.2024	
July	29.07.2024	
August		15.08.2024
September		
October		
November	25.11.2024	
December		

## Price: 820 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# APQP / PPAP Evidence Workbook

APQP = Advanced Product Quality Planning  
 PPAP = Production Part Approval Process

## Target Audience:

- Employees at all levels and from all areas (internal and suppliers) – especially from Product Development, Manufacturing, Purchasing and Quality – who are responsible for quality of products, services and production part release activities
- Experienced employees & new comers who want to understand Ford's requirements regarding APQP/PPAP Evidence Workbook

**Duration:** classroom training 3h / online Training 2.5h

## Objectives:

At the end of the course delegates will:

- Understand structure of standardizes evidence forms of APQP/PPAP Evidence Workbook
- Know how to complete the APQP/PPAP Evidence Workbook

## Contents:

- Background and benefits of APQP/PPAP Evidence Workbook
- Contents and key Deliverables of APQP/PPAP Evidence Workbook
- Completing APQP/PPAP Evidence Workbook
- Meaning of APQP/PPAP Evidence Workbook key Deliverables
- Necessary expertise for completing APQP/PPAP Evidence Workbook

## Methods:

Presentation, examples, and discussions

## Prerequisites:

All contents of the "APQP/PPAP Requirements" training are assumed to be known. Prior participation in this training is therefore mandatory.

NOTE: Also for the online trainings, both trainings can be booked in series, as the "APQP/PPAP Requirements" training ends at noon and the "APQP/PPAP Evidence Workbook" Training starts in the afternoon.

## Necessary materials:

None

## Notes:

Open courses (internal and external delegates) are offered as presence or instructor-led online events.

# APQP / PPAP Dates 2024

	online 2,5h	classroom 3h
January	16.01.2024	
February		
March		
April	16.04.2024	10.04.2024
May		
June		
July	02.07.2024	
August		14.08.2024
September	17.09.2024	
October		
November	19.11.2024	
December		

## Price: 820 €.

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.



# VDA AIAG Design FMEA Harmonisation 1st edition : Acc. IATF 16949 Ford CSR

**Target Audience:**

- Employees of all levels and from all areas – especially from Product Development.
- Experienced employees who want to understand VDA AIAG Design FMEA approach.

**Duration:** online 5h

**Objectives:**

At the end of the course delegates will understand:

- The new VDA AIAG Design FMEA approach
- FMEA specific IATF 16949 Ford CSR

**Contents:**

- The Harmonization VDA AIAG
- The 7 Step approach
- The System Structure
- The Function Failure Net
- The new Design FMEA 3 Layer Form
- Boundary Diagram
- Interface Analyses
- Parameter Diagram and Robustness Checklist
- The new Action Priority (former RPN)
- The new Rating Tables
- Survival Tipps for easier Transition
- Monitor System response FMEA supplement.
- Foundation-, Family-FMEA
- FMEA Software use

**Methods:**

Presentation, exercises, discussion

**Prerequisites:**

VDA or AIAG FMEA experience

**Necessary materials:**

none

**Notes:**

none

## VDA AIAG Design FMEA Dates 2024

	online 5h
January	
February	
March	4.03.2024
April	
May	
June	10.06.2024
July	22.07.2024
August	
September	
October	
November	11.11.2024
December	

**Price: 950 €.**

Costs per participant including training material.

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.

# Ford Failure Mode Avoidance

## Robustness Documentation P-Diagram & RCL

**Target Audience:**

Product Development- and Quality- Engineers

**Duration:** Online 2h

**Objectives:**

The participants will be prepared to conduct, with a special Excel Template, the Ford requested Robustness Documentation to comply with the Failure Mode Avoidance Process

**Content:**

- Boundary Diagram
- Function and Robust Design
- P-Diagram,
- Robustness Checklist
- Robustness Demonstration Matrix
- Test Methods
- Robustness Excel Template

**Method:**

Presentation and Exercise

**Prerequisite:**

Ford FMEA Knowledge according Ford FMEA Handbook 4.2

**Materials:** none

**Remarks:**

The Trainer is a former Product Development Engineer he is familiar with the Ford FAP's and stays in close contact with Ford of Europe PD Quality and with the worldwide Ford Failure Mode Avoidance Experts.

## Failure Mode Avoidance Dates 2024

	online 2h
January	
February	
March	
April	
May	24.05.2024
June	
July	
August	
September	
October	
November	19.11.2024
December	

**Price: 300 €.**

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# VDA AIAG Process FMEA Harmonisation 1<sup>st</sup> edition :

## Acc. IATF 16949 Ford CSR

**Target Audience:**

- Manufacturing, Purchasing, Sales and Quality – who take place in the development, production and handling processes.
- Experienced employees who want to understand VDA AIAG Process FMEA approach.

**Duration:** Online 5h

**Objectives:**

At the end of the course delegates will understand:

- The new VDA AIAG Process FMEA approach
- FMEA specific IATF 16949 Ford CSR

**Contents:**

- The Harmonization AIAG VDA
- The 7 Step approach
- The Process Structure
- The Function Failure Net
- The new Process FMEA 3 Layer Form
- Process Flow Diagram
- Micro Operation Process Function description
- 4M approach Failure cause mechanism
- The new Action Priority (former RPN)
- The new Rating Tables
- Survival Tipps for easier Transition
- Foundation-,Family-FMEA and Reverse FMEA
- FMEA Software use

**Methods:**

Presentation, exercises, discussion

**Prerequisites:**

VDA or AIAG FMEA experience

**Necessary materials:**

none

**Notes:**

none

## VDA AIAG Process FMEA Dates 2024

	online 5h
January	
February	
March	5.03.2024
April	
May	
June	11.06.2024
July	
August	
September	
October	
November	12.11.2024
December	

**Price: 950 €.**

Costs per participant including training material.

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.

# SCCAF & Control Plan

SCCAF = **S**pecial **C**haracteristics **C**ommunication and **A**greement **F**orm

**Target Audience:**

- Employees of all levels and areas, particularly product development, manufacturing, and quality, with responsibility for product quality, process planning, service or part release activities.
- Experienced employees & newcomers who are involved in the planning, handling and / or approval of Special Characteristics.

**Duration:** classroom training 4h / online Training 2x 2h

**Objectives:**

At the end of the course delegates will have an overview about:

- The structure and handling of the SCCAF and the Control Plan.
- The rules, procedures and timing for creating these documents.

**Contents:**

- Definition and benefits of a regular SCCAF process
- Timeline of the SCCAF process and responsibilities
- SCCAF inputs and outputs
- SCCAF change management
- Transition from SCCAF to the Process Control Plan
- Areas and contents of SCCAF and Process Control Plan
- Structure and correct creation of these documents

**Methods:**

Presentation, examples, exercise, interactions and discussions

**Prerequisites:**

Basic knowledge of FMEA and the APQP process according to Ford guidelines are desirable and advantageous.

**Necessary materials:**

none

**Notes:**

Open courses (internal and external delegates) are offered as presence or live online events.

# SCCAF & Control Plan Dates 2024

	online 2 x 2h	classroom 4h
January	18.01.2024	
February		
March		
April	18.04.2024	11.04.2024
May		
June		
July	04.07.2024	
August		15.08.2024
September	19.09.2024	
October		
November	21.11.2024	
December		

**Price: 820 €.**

Costs per participant including training material.

Appointments for company classes up to a maximum of 14 participants can be arranged.

# Global 8D

Describe the Problem, identify Root Cause and permanent elimination

**Target Audience:**

- Employees of all levels and from all areas – especially from Product Development, Manufacturing, Purchasing, Sales and Quality – who take place in the development, production and handling processes.
- Experienced employees & newcomers who want to understand Ford's G8D approach.

**Duration:** classroom 14h on 2 days, Online 7,5h.

**Objectives:**

At the end of the course delegates will understand and can apply:

- Ford's Global 8D approach
- Global 8D report
- 3 Legs 5 Why

**Contents:**

- Global 8D Check Questions
- Problem description
- Emergency Response Action
- Interim Containment Action
- Permanent Containment Action
- Root cause analysis
- Is./ Is not analysis
- Differences and changes investigation
- Test Matrix
- Root cause of the root cause
- 3 Legs 5 why

**Methods:**

Presentation, exercises, case studies, discussion

**Prerequisites:**

None

**Necessary materials:**

None

**Notes:**

Open courses (internal and external delegates) will be held at Ford locations. Furthermore, courses can be ordered in German or English language on-site.

# Global 8D Dates 2024

	online 3 x 2,5h 2 days	classroom 14h 2 days
January	18.-19.01.2024	25.-26.01.2024
February		
March		25.-26.03.2024
April	18.-19.04.2024	
May		
June		24.-25.06.2024
July	8.-9.07.2024	
August		
September		5.-6.09.2024
October	17.-18.10.2024	
November		
December		12.-13.12.2024

**Price: 1.500 €.**

Costs per participant including training material

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.

# Statistical Process Control (SPC)

Statistical method for the evidence of Stability and Capability

## Target Audience:

Employees at all levels and from all areas (internal and suppliers) – especially from Product Development, Manufacturing, Purchasing and Quality – who are responsible for quality of products and services.

**Duration:** classroom training 2x 8h / online Training 1x 3h and 4x2h

## Objectives:

At the end of the course delegates will be able:

- To dominate important product characteristics in scope of mass production
- To understand customer requirements for process capability
- To derive actions from process capability results

## Content:

Purpose of Statistical Process Control is to monitor process dispersion and location in order to control processes. This allows user to take appropriate actions on their processes with reference to continuous improvement. For this the following contains will be considered:

- Background, history and philosophy of SPC,
- Context to other quality tools as source of SPC characteristics,
- Meaning and how to deal on special characteristics,
- Determination and prerequisites for SPC criteria,
- Basics of statistics,
- Shapes of distributions and interpretation,
- Basics of Measurement System Analyses,
- SPC application for variable and attribute data,
- Selection and application of process control charts for variable and attribute data,
- Differentiation of common cause and special cause variation,
- Stability criteria,
- Out-of-control indications,
- Indices to determine process capability ( $C_p$ ,  $C_{pk}$ ) and process performance ( $p_p$ ,  $p_{pk}$ ),
- Interpretation of indices and derived actions

## Methods:

Presentation, examples, exercises and discussions

## Prerequisites:

None

## Necessary materials:

- calculator

## Notes:

Open courses (internal and external delegates) are offered as presence or live online events.

## SPC Dates 2024

	online 1 x 3h & 4 x 2h 3 days	classroom 2 x 8h 2 days
January	27.01-29.01.2024	
February		
March		
April		
May		
June		4.-5.06.2024
July		
August		
September		
October	15.-17.10.2024	
November		11.-12.11.2024
December		

## Price: 2.870 €.

Costs per participant including training material

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.

# Measurement System Analysis

Basics, Variable and Attribute MSA Procedures acc. AIAG 4<sup>th</sup> and FORD PPAP

**Duration:** Online 4h

**Target Audience:**

- Employees who are responsible for the MSA confirmation.

**Aim:**

Learn the MSA Requirements:

- MSA AIAG 4<sup>th</sup>
- Ford

**Content:**

- Bias, Stability, Linearity
- Study 1 Gage Capability
- Study 2 Anova Gage R&R
- Study 3 Gage R for automated Measurements
- Attribute Short Method
- Attribute Signal Detection
- Attribute Cohens-Kappa-Analyses
- Attribute Gage Performance Curve
- MSA with MiniTab Software

**Method:**

Presentation and Exercise

**Prerequisite:**

Basic Statistical Knowledge and SPC Awareness, ideally completion of SPC Training.

**Material:**

Pocket Calculator or Laptop

**Remarks:**

The Participants will get several Excel MSA Examples after the Training.

## MSA Dates 2024

online 4h

January

February

March

April

May

June

July

August

6.08.2024

September

October

November

December

**Price: 750 €.**

Costs per participant including training material.

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.

# DoE: Design of Experiments

Efficient experiments and identification of significant factors and interactions.

**Duration:** online 5h

**Target Audience:**

- Research- Design- and Process-Engineers

**Target:**

The necessary skills will be provided to:

- Plan an experiment
- Run a structured experiment
- Analyse observed data
- Generate a mathematical prediction model

**Content:**

- One Factor Experiment (linear Regression)
- Full Factor Plan
- Daniel Plot
- Fraction Factor Plan
- Response Surface Experiment

**Method:**

Presentation, examples, experiments, calculations and discussions

**Prerequisite:**

None

**Material:**

Pocket Calculator ideally laptop for DoE excel calculations sheets

**Remarks:**

DoE training is the prerequisite for the 3 day engineering statistic class.

## DoE Dates 2024

online 5h

January

February

March

April

May

June

July

August

13.08.2024

September

October

November

26.11.2024

December

**Price: 990 €.**

Costs per participant including training material.

**For the interactive online training the WEB EX Software Client must be installed to participate the team exercises.**

Appointments for company classes up to a maximum of 14 participants can be arranged.



# CPA Capacity Planning Analysis (for sub-tier suppliers)

Capacity Analysis based on EXCEL – for Capacity Analysis based on DATABASE see “eCAR” training

**Target Audience:**

- Employees at all levels and from all areas – especially from Product Development, Manufacturing, Purchasing, Sales, Material Planning & Logistics and Quality – who are responsible for capacity planning, quality of products, services, and production part release activities.
- Experienced employees & new comers who want to understand Ford's requirements regarding capacity planning analysis.

**Duration:** classroom training 4h / online Training 2x 2h

**Objectives:**

At the end of the course delegates will:

- Understand Ford requirements of capacity analysis
- Be able to calculate possible capacities and assess degree of capacity utilization of manufacturing facility
- Be able to register as certified capacity planner in Ford's systems

**Contents:**

- basics of capacity planning analysis,
- timing for capacity demonstration,
- capacity analysis related terms and abbreviations,
- capacity requirement sources,
- OEE calculation,
- Capacity Analysis Report completion,
- required actions in GCP (**G**lobal **C**apacity **P**lanning) and MCPV (**M**anufacturing **C**apacity **P**lanning **V**olumes),
- interpretation of capacity analysis output,
- transferring capacity analysis figures into Ford's adopted PSW form,
- Certification and registration process for **Certified Capacity Planners**.

**Methods:**

Presentation, examples, and discussions

**Prerequisites:**

It is strongly recommended to participate in “APQP/PPAP Requirements” training before, since CPA is part of these requirements. Only all modules together will explain the complete relationships of all production part release requirements and how to document them.

**Necessary materials:**

None

On request

# Engineering Statistics

Statistical tools for development and process

**Target Audience:**

- Research-, Design- and Manufacturing - Engineers.
- Black Belts (DCOV)

**Duration:** Online 7,5h

**Aim:**

Learn important statistical tools for

- Product Development
- Process and Manufacturing

**Content:**

- DoE
- Process Run Chart
- Taguchi Robust Design
- Weibull Analyses
- Gage R&R
- Response Surface Experiment
- Excel Solver Multiparameter Optimization
- Process Capability Analyses

**Method:**

Presentation, exercises, calculations and discussions

**Prerequisite:**

Completion of DoE training class or DoE knowledge and excel basics is mandatory to attend Engineering Statistic Training Class.

**Materials:**

Laptop for DoE excel calculation sheets.

**Remarks:**

DoE stands for Design of Experiments a structured efficient Test approach using orthogonal Test Matrices.

DoE is the prerequisite to attend the 3 Day Engineering Statistics training class.

DCOV (Define Characterise Optimise Verify) is the Design for Six Sigma Approach and will be simulated with a Fuel Filler Flap Example during the Engineering Statistics Training.

On request

## Price List 2024 (plus 19% VAT)

Schulung (online or classroom)	Price
APQP/PPAP Evidence Workbook	820 €
APQP/PPAP Requirements	1.570 €
<b>Capacity Planning Analysis</b> für Unterlieferanten	820 €
<b>Design of Experiments</b>	990 €
e <b>Capacity Analysis Report</b> für Tier 1 Supplier	820 €
<b>Engineering Statistics</b>	990 €
e PSW <b>Part Submission Warrant</b>	820 €
Global 8D	1.500 €
GPDS <b>Supplier Engagement Process</b>	820 €
<b>Measurement System Analysis</b>	750 €
Q1 <b>Manufacturing Site Assessment</b>	1.570 €
SCCAF & Control Plan	820 €
<b>Statistical Process Control</b>	2.870 €
VDA AIAG Design FMEA	950 €
VDA AIAG Process FMEA	950 €
Failure Mode Avoidance P-Diagram & RCL	300 €

Cost for each single participant, training material included.  
 The equivalent content is conveyed in the live online training courses as in the classroom training.