

# invenio



## QUALITY SYSTEMS BASICS

- CONSULTING AND TRAINING
- AUDITING
- DEVELOPMENT AND IMPLEMENTATION OF MEASURES

## OUR SERVICES AT A GLANCE



### PROCESS

- Initial situation briefing
- QSB-elements training
- Pre-audit: production and support processes
- Gap-closure plan
- Verification audit
- Certification support



### TEAM

- GM-certified team of consultants
- Experienced automotive experts
- Global application
- Languages: German/English
- Central project management by the headquarter in Rüsselsheim
- Germany: 12 locations – Europe: 6 further locations



### EXPERTISE

- Full-service partner in product engineering
- Best-practice knowledge in quality management
- Engineering partner of Opel/GM since 1986
- Captive training organisation invenio Academy
- Problem-solving methods and processes
- Supplier Quality Management



### YOUR ADVANTAGES AT A GLANCE

- Consulting and training by practice-oriented quality experts
- Individualised arrangement of consulting processes
- QSB-training documents in German and English
- Consulting instructions and practical examples from 27 years of automotive experience
- Management compliant processing of the consultation results
- Certification process in cooperation with your GM Supplier Quality Engineer



Quality Systems Basics are practice-oriented and proven quality elements, which proactively minimize the error rate and reduce the error costs in the supply chain considerably. QSB are no further theoretical standard of requirements, but instead a simple, clear and easily applicable quality system with a great variety of application examples.

**Alexander Nieland**  
Head of Business Unit

## OUR SERVICES AT A GLANCE

### CLARIFYING THE OVERALL CONDITIONS

- Explaining the strategic advantages of QSB-certification
- Assessment of the initial operational situation
- Identifying focus points of consulting
- Estimation of the consulting/training costs
- Selection and scheduling of the individual process steps
- Definition of target groups for QSB-training



### QSB-TRAINING

- Comprehensive teaching of the QSB-elements
- Consulting and training in German and English
- Training sessions carried out on-site at your premises
- Practice-oriented hand-outs for all training participants
- Interdisciplinary training concept
- Visualisation of content based on practical examples



### PRE-AUDIT/VERIFICATION AUDIT

- Auditing based on the QSB-guidelines
- Review of the existing process maps
- Analysis of the existing documentation
- Expert assessment of the productive areas
- Participation in operative coordination meetings
- Documentation of the actual situation based on the QSB-checklist



### GAP-CLOSURE PLAN/CERTIFICATION SUPPORT

- Precise reporting of deviations from the QSB-standard
- Recommended measures for achieving QSB-certification readiness
- Processing results for communication to the management
- Communication interface with your GM Supplier Quality Engineer
- Support in certification planning and implementation
- Participation in the certification audit by GM/Opel



Through invenio's support in improving the performance of suppliers by means of QSB-trainings, pre-audit combined with the drafting of an extensive action plan as well as the support during the entire audit, we obtained the necessary know-how for a successful QSB-certification.

**Dr. Rainer Stumm**

*Quality Management, Meleghy & Cie. Automotive GmbH*

## YOUR CONTACT AT INVENIO

### invenio GmbH Engineering Services

Alexander Nieland  
Eisenstraße 9  
65428 Rüsselsheim

P +49 (6142) 899-220  
alexander.nieland@invenio.net

## REFERENCES (EXTRACT)

AUDI | AVL

BMW | BOEHRINGER INGELHEIM | BOMBARDIER | BORGWARNER

BOSCH | BRAUN | BRUKER | BSH

CARIAD | CONTINENTAL | CWS-BOCO

DAIMLER TRUCK | DANA | DB | DENTSPLY SIRONA | DEUTZ | DÜRR DENTAL

EBERSPÄCHER

FORD | FRESENIUS | FREUDENBERG

GARDNER DENVER | GETINGE | GH INDUKTION | GKN | GM | GRUPO ANTOLIN

HATZ | HAUNI | HEIDELBERG | HOERBIGER | HYUNDAI

JUNGHEINRICH

KESSEBÖHMER | KRAUSSMAFFEI | KROENERT | KUKA

LEAR | LEIFHEIT | LEONI | LÜRSSEN WERFT

MAGNA | MAHLE | MAN | MANNHUMMEL | MENTOR | MERCEDES BENZ | MICHELIN | MITSUBISHI

NEMAK

OHM & HÄNER

PORSCHE

RENK | ROCHE | ROLLS ROYCE

SANOFI-AVENTIS | SCHAEFFLER | SCHENCK | SCHEUGENPFLUG | SCHOTT | SCHÜLE  
SEW EURODRIVE | SIEMENS | SMITHS | SMS | SONOTRONIC NAGEL | SPIEGELBERG  
STELLANTIS | SULZER | SUSS

TBH | TENNECO | TI | TOMRA | TRUMPF

VAILLANT | VALEO | VITESCO | VOLKSWAGEN | VONROLL AUTOMOTIVE

WEBASTO | WEIDPLAS

YANFENG | YAZAKI

ZF