



NEWSLETTER APRIL 2017

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IN DIESER AUSGABE:

- ⊙ ISO/TS 22163 will be published soon
- ⊙ New Lecturers
- ⊙ Update - Seminar Calendar 2017

Dear reader, please take 5' of your time. It is worth ...

New ISO / TS 22163 standard will be published in a few weeks

Already in our last [newsletter](#) we reported about some highlights of the new railway standard. The norm will be published soon, together with the new IRIS Certification Rules and the revised IRIS Tool (which contains the new IRIS Assessment Sheet).

So far, 95 participants have been attending our new TS 22163 seminars and thus, are very efficiently prepared for the challenges ahead. The courses were rated by all participants consistently high with at least 95% customer satisfaction. In the first semester, four further in-house seminars for Bombardier and two public seminars in Pittsburgh and Frankfurt will follow.

But by fare not all companies have realized that the time for the transition will become increasingly scarce and the requirements will increase. In many cases, TS 22163 focuses much more on general, but also on railway-specific topics such as: product quality and safety, risk- & opportunity management, process orientation, including the responsibilities of the process owners, project management, requirements management, development, configuration management, change management, RAMS/LCC, purchasing, production, etc. In future customer orientation and process performance (results of development, projects, production, procurement ...) will be assessed in addition to the percentage evaluation of business processes, what will lead to no or a bronze/silver/gold certificate. This is intended to overcome the previous weakness, that a valid IRIS certificate doesn't necessarily mean that a company also manufactures safe and error-free products.

In the meantime, IRIS has developed to an industry standard. The number of IRIS-certified companies is growing continuously (currently mainly in Asia and Russia). Today, there are 1531 certificates worldwide and the trend is irreversible, as in other sectors too (automotive, aerospace, food, medicine, telecoms ...). One of the newly defined IRIS objectives is to establish a "certified supply chain", which means, that all IRIS certified companies along a supply chain shall "motivate" their suppliers, depending on their strategic importance, to get IRIS certified.

Also, the "ownership" of the IRIS standard is changing with the ISO/TS 22163. In future, the ISO-bodies will decide on the content of the standard. Hence, the standard will become even more internationally recognized.

And, railway operators, such as SBB, DB, SNCF, MAV, RZD, China, etc., are noticeable increasingly engaging with the content of the standard and try to influence its requirements. Thanks to the signed Memorandum of Understanding, DB AG has already done so well. It is only a matter of time, sooner or later the European Railway Agency (via the Notified Bodies), but also the railway operators will write IRIS as a binding standard in their purchasing or product approval specifications. Some are doing this already. Therefore, extreme attention must be given, because if this would be done even more extensively, IRIS will become an "entrance ticket" for every railway provider. Those, who are not prepared for it, will painful regret to leave the business to others and should invest at least two years to compensate this residue.

We respond to the higher requirements by expanding and adapting our IRIS Academy Program. In some business processes, ISO/TS 22163 will mandatorily assess skills/competences and the related qualification levels. To better illustrate this, we have prepared the following table, which also provides an indication of the seminars that can be booked to acquire these competences:

process:	applies to:	required skills:	seminar recommendation:
tender management	bid team	requirements management	module 1: ISO/TS 22163 requirements
project-management	projekt leader and core team	project management principles; project management - tools in use; teamwork and communication; project quality management; risk and opportunity management; Kenntnisse über die zu liefernden Produkte und Dienstleistungen;	IRIS Project Management
	projekt leader	leadership skills; project finances.	
design and development	design engineers	requirements management; configuration management; methods of quality engineering	module 1: ISO/TS 22163 requirements
RAMS/LCC	design engineers	FRACAS: Failure Reporting, Analysis, and Corrective Action System	RAM / LCC Manager
audit	internal auditors of relevant functions (z.B. Procurement, Engineering, PM...)	audit principles (e.g., personal behavior), procedures and methods; knowledge about the audit subject (e.g., a product or service, a function / organization); requirements of applicable TS 22163 clauses according to the audit topics;	module 1: ISO/TS 22163 requirements module 2: new IRIS certification rules
	Supplier Quality Assurance	audit criteria (e.g. internal processes, TS 22163 standard).	

see <http://www.cc-rail.info/academy/>

If you would like to find out about the course content, please check the respective seminar agenda (see page 4) on our website.

New Lecturers

As usual, we will share, via our IRIS Academy, our best knowledge first hand with you! In accordance with our credo "the best for the best in the railway industry", we have won new high-caliber lecturers, which we would like to introduce briefly:

Andreas Kroenert, a Senior RAM/LCC Engineer, is working 20 years for rail business.

Andreas has worked in numerous Siemens and Alstom railway vehicle projects throughout the entire life cycle, starting with the offer preparation, subsequent design, construction and testing & commissioning phases through to the final operation and maintenance periods. Also, he has participated in national and international committees for RAM/LCC and maintenance related standards and regulations.



Up to 2010 Andreas worked for Alstom. There he took the product responsibility with a view to RAM/LCC for electrical multiple units intended for local and regional public transport in Germany and Northern Europe.

Following his move to Siemens, Andreas worked in the high-speed train project ICE4 for Deutsche Bahn (German Rail). Up to the end of the year 2012 he was leading the RAM/LCC engineering team of the supplier consortium of Siemens and Bombardier. Later he took over a management role in the field of LCC and Maintenance Engineering in the Siemens Customer Services organization. At the beginning of 2014 he joined the turnkey project Metro Riyadh, Saudi Arabia. There he took the project lead role for RAM with full responsibility for coordinating and executing the RAM management tasks for Siemens comprising rolling stock, signaling, platform screen doors, rail electrification and communication subsystems as well as the depot and workshop equipment facilities. End of 2016 he moved to the overall project management team of the Riyadh Metro supplier consortium and has currently the lead of the RAM Management function including civil engineering design.

Wolfram Krekeler starts a new Supplier Quality Assurance seminar.

Wolfram is a Supplier Quality Assurance (SQA) – pioneer. Since many years, he has built up the SQA function at Bombardier Transportation and was responsible for the worldwide development and implementation of highly efficient and effective SQA standards.

In the global railway sector, there is hardly a Second, who can report so many practical experiences from the day-to-day SQA-business and has left so deep traces in this area.



In his professional career, he has already been a RAMS / LCC Engineer, QM System Engineer, QM Project Engineer, Project Director Metro Guangzhou L1, Project Portfolio Director Carbodies, Director Product Introduction Metros, Director Quality Mainline & Metros, Director SQA & SPM Passengers and Senior Director SQA & SPM.

He has special knowledge in the areas of supplier quality assurance, supplier development, supplier performance management and supplier requirements management.

Seminar Calendar 2017

Opinion of our customers is, that our seminars are qualitatively unique and are hardly reached by our competitors. This is mainly due to the many practical examples and the fact, that the seminar papers are prepared very carefully and with a great deal of effort.

We come to your region and prepare you optimally for the new challenges. Our seminars usually last 4 days, which are well invested for these topics. However, through these comprehensive and intensive training courses you will save later many internal hours during your implementation period.



Only the seminars in English language (some incl. Chinese translator) are shown below. For further seminars in German, please refer to our website.

When you are interested in a particular seminar, please pick the course number and visit our [webpage](http://www.cc-rail.info/en/academy/) (<http://www.cc-rail.info/en/academy/>). Using the course numbers, you will find there under "Details" the respective seminar agenda and the course descriptions with the exact dates, the times for the start at the first days and the end at the last days, the training venues, the course fees and the booking deadlines.

As the demand for additional in-house seminars is very high, there is a risk that planned seminars with low participation will be cancelled. Therefore, it is extremely important, that if you are interested, you register already now, even if the course takes place in the second semester. Invoicing starts later, approx. 4 weeks before the start of the seminar.

Seminar name	2017												
	April		May		June		August		October		November		
ISO/TS 22163 requirements (module 1: IRIS Manager)	134	Pittsburgh	135	Pittsburgh	138	Frankfurt	157	Qingdao	146	Lyon	149	Wroclaw	
			162	India (Savi)	163	Berlin	159	Dalian	147	Bilbao	151	Italy	
new IRIS Certification Rules (module 2: internal IRIS Auditor)											152	Italy	
RAM / LCC Manager									145	Frankfurt			
IRIS Project Manager									148	Bilbao			
SQA Manager												150	Prague

<http://www.cc-rail.info/en/academy/>

We hope that our newsletter could provide some new information and useful suggestions to you.
 With best regards,
 Your CC-Rail Team (info@cc-rail.com)