Appendix A: Comparative table of roles and competences specified in Annex C to ERA Assessment Scheme (Technical Document 000MRA1044 v. 2.0)

Decision maker	Technical reviewer	Technical lead evaluator	QMS lead auditor	QMS auditor	Inspector	Lead inspector
			Description			
The person(s) assigned to make certification decision as described in 7.6.2.	The person assigned for reviewing all the information and results related to the evaluation as described in point 7.5.1 of EN ISO/IEC 17065.	For each individual project, where inspection and auditing activities are required, a technical lead evaluator shall be appointed. This technical lead evaluator has the overall authority and responsibility to ensure that all project activities of the evaluation phase are correctly prepared, executed and documented in reports and other records as described in point 7.4 of the EN ISO/IEC 17065. Therefore, the technical lead evaluator shall set up a project team according to the requirements of the ERA Assessment Scheme to cover all the evaluation activities.	The QMS lead auditor has the overall authority and responsibility to ensure that all project auditing activities of the evaluation phase are correctly prepared, executed and documented in reports and other records as described in point 7.4 of the EN ISO/IEC 17065.  QMS lead auditor supports the technical lead evaluator in the QMS audit activities.	The QMS auditor supports the QMS lead auditor.	The inspector supports the technical lead evaluator in performing the activities related to inspections within the scope of assessment. Where appropriate, the inspector may support the auditor or the lead auditor acting as technical expert. The inspector may also act as mentor to other inspectors.	The lead inspector has the overall authority and responsibility to ensure that all project inspection activities of the evaluation phase are correctly prepared, executed and documented in reports and other records as described in point 7.4 of the EN ISO/IEC 17065.
			Training and experience			
			General			
One or more of the following possibili						
> MASTER university degree (or equiva		1.2 years of proven professional	1.2 years of proven professional	1.1 year of proven professional	1.2 years of proven professional even	viance valouant for the technical scene
+ 6 years of proven professional experience preferably relevant for the railways;	+ 3 years of proven professional experience preferably relevant for the railways;	+ 3 years of proven professional experience relevant for the technical scope in which the person is intended to work;	+ 3 years of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways;	+ 1 year of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways;	+ 3 years of proven professional experience relevant for the technical so in which the person is intended to work;	
› BACHELOR university degree (or equ	ivalent)					
+ 8 years of proven professional experience preferably relevant for the railways;	+ 5 years of proven professional experience preferably relevant for the railways;	+ 5 years of proven professional experience relevant for the technical scope in which the person is intended to work;	+ 5 years of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways;	+ 3 years of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways;	+ 5 years of proven professional experience relevant for the technical scop in which the person is intended to work	
> Relevant technical vocational trainin	gs in the field of the scope of the assessi	ment of at least 2 years				
+ 11 years of proven professional experience preferably relevant for the railways.	+ 8 years of proven professional experience preferably relevant for the railways.	+ 8 years of proven professional experience relevant for the technical scope in which the person is intended to work.	+ 8 years of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways.	+ 6 years of proven professional experience relevant to quality management systems relating to a technical area, preferably in railways.	+ 8 years of proven professional expering which the person is intended to wo	
			Specific in addition to General			
Sound knowledge and	> Training (internal or external) on the relevant requirements for the CAB					
understanding of the relevant requirements for the CAB certification processes based on EN ISO/IEC 17065 and the testing, inspection and auditing processes based respectively on EN ISO/IEC 17025, EN ISO/IEC 17020 and EN ISO/IEC 17021-1.	inspection processes based on EN ISO/IEC 17020, EN ISO/IEC 17021-1 and EN ISO/IEC 17065;  > Proven experience (e.g. 5		> Specific training as auditor (internal or external) based on the EN ISO/IEC 17021-1 lasting at least 5 working days or 40 hours of classroom style		> Proven experience of at least 1 year as mentoring period according to EN ISO/IEC 17020 point 6.1.6 including minimum participation in more than	
	> Proven experience (e.g. 5 completed projects) in any scope of assessment (cf. Annex D), with at least one in the following roles: lead inspector or QMS lead auditor.	one completed evaluation project) in any the scope of assessment (cf. Annex D) as at least one of the following: (lead) inspector and/or QMS (lead) auditor.	for lead auditing; for auditing;		one project and documented final positive assessment of his/her competences in the relevant technical scope in which the person is intended to work as inspector.	
			Participation in QMS audits in the railway domain as follows:			
			a) For <i>initial nomination</i> as			
			Lead auditor	QMS auditor		
			Participation in at least:			
			3 QMS audits: 2 QMS audits:			
			<ul> <li>with one of them related to the IOD</li> <li>in a team of at least 2 persons;</li> <li>with a duration of at least one day;</li> <li>at least at the level of "auditor in ISO/IEC 17021-1)</li> </ul>			

Decision maker	Technical reviewer	Technical lead evaluator	QMS lead auditor	QMS auditor	Inspector	Lead inspector
			- during the last 24 months before no	omination as QMS lead auditor.		
			b) For <b>maintaining the status</b> as			
			as Lead auditor	QMS auditor		
			Participation in at least 1 QMS audit:			
			- related to the IOD;			
			- in a team of at least 1 person;			
			<ul> <li>with a duration of at least one day;</li> </ul>			
			- during the last 36 months;			
			- at the level of "lead auditor".	- at the level of "QMS auditor".		
			c) For <i>re-nomination</i> as	are are the control of the control o		
			Lead auditor	QMS auditor		
				· ·		
			(where requirement b) has not been	met)		
			Participation in at least 1 QMS audit: - related to the IOD;			
			- in a team of at least 2 persons;			
			<ul> <li>with a duration of at least one day;</li> </ul>			
			at least at the level of "auditor in trai			
			ISO/IEC 17021-1) during the last 6 mg	= -		
			Knowledge			
			Legal framework			
Sound knowledge and understanding	on the following tonics:			ing of railway related European legal fran	nework including vocabulary (e.g. 101	2016 TSIs and modules Pegulation
	on the following topics: t, EC suitability of use, EC verification, A	rticle 15 and Anney IV on the role of	2019/250)	ing of failway related European legal Ifal	nework, including vocabulary (e.g. 101	2010, 1313 and modules, Regulation
	uthorisation for the placing in service of					
	et; role of applicant, NoBo, DeBo, Asses		<ul> <li>General application of an QMS and relevant aspects of safety related</li> </ul>			
	e/renewal of an existing subsystem; Eur		aspects of a project when applied to			
legal framework.			the railway technology production			
> Railway modules: Decision 2010/713	/EU on railway modules, difference bet	ween module with QMS and without	process;			
QMS, applicable modules according to			> Typical operation and maintenance			
•	em per TSI, concepts of mandatory stan	dards, harmonised standards,	of the product;			
	s of compliance, alternative solutions.		> Typical design/production defects			
	tock and on-board control-command ar	nd	of this or similar products/			
signalling subsystems): PA VA.			technology and on previous defects			
> RSD 2016: Regulation on CSM-RA, le			of which have materialised in			
Regulation 2019/250: the		the Regulation on CSM-RA: allocation	previous applications of this or			
templates for 'EC' declarations and	of roles and responsibilities and risk a		similar products/ technology – limited to those defects which could			
certificates for railway	> EN ISO/IEC 17065 and the relevant re	· ·	interfere with safety, health, the			
interoperability constituents and subsystems, the declaration of	processes based on EN ISO/IEC 17020, 17025 in combination with the ERA As		environment or any other essential			
conformity to an authorised railway	> ERA documents: technical opinions,		requirement as defined by IOD			
vehicle type and on the 'EC'	documents, ERA guidance, lines to tak		2016.			
verification procedures for	> Documents of the Coordination grou					
subsystems.	IOD 2016): RfU and Q/C.	p 0:				
	General knowledge and	> Health and safety requirements:	1			
	understanding of the following	competence of general procedures				
	topics:	to manage staff safety for				
	Modules based on quality	performing on site activities (e.g.				
	assurance: general knowledge and	tests under energised equipment,				
	understanding of auditing	with rolling stock in motion, in				
	procedures.	factories, etc.).				
	> Technical standards: depending on					
	the scope of the assessment:					
	- of the content of the standards					
	quoted in the applicable TSIs, and					
	- ability to understand and evaluate the content of the industrial					
	standards which can be used at					
					l	
	designing or manufacturing phases.					

Decision maker	Technical reviewer	Technical lead evaluator	QMS lead auditor	QMS auditor	Inspector	Lead inspector
> General knowledge and understanding of all the areas from Annex D. (Normative) List of technical topics per scope of assessment.			Sound knowledge and understanding of relevant parts of Annex D. necessary to achieve the intended results of the audit they are expected to perform.		<ul> <li>Sound knowledge and understanding of relevant parts of Annex D.</li> <li>Sound knowledge and understanding of the interfaces with other technical scope related to interoperability and safe integration;</li> </ul>	
			> The QMS lead auditor	> The QMS auditor	> Technical standards: depending on	•
			can be accompanied by technical experts as point 9.2.2.2.2 of EN ISO/IEC 17021-1 to fulfil these requirements.		<ul> <li>General broad overview of the content of the standards quoted in the applicable TSIs, and</li> <li>Ability to understand and evaluate the content of the industrial standard which can be used in the designing or manufacturing phases.</li> </ul>	
			Non-technical skills			
> Proven ability to apply sound profess > Ability to understand and evaluate technical documents that are part of the Evaluation file to allow him/her to make a justified certification decision; > Ability and authority to provide or not provide the certification if the product evaluation project does or does not fulfil the quality requirements.	ional judgement;  > Knowledge and understanding of the interfaces with other technical scope related to interoperability and safe integration;  > Ability to analyse and verify that the technical documents that are part of the Evaluation file cover all relevant requirements;  > Ability to recommend or not recommend the certification if the product evaluation project does or does not fulfil the quality requirements;  > Good quality of work;  > Impartial and non-discriminatory behaviour.	Ability to manage on on-going basis the project activities for evaluation;     Ability to form and coordinate a project evaluation team;     Ability to manage subcontracted project evaluation activities;     General knowledge of manufacturer's quality management system methodology i.e. ISO 9001;	assessment;	ic and appropriate for specific scope of ibed in Annex D of EN ISO/IEC 17021-1;  Auditing skills and knowledge: generic and appropriate for specific scope of assessment.	Ability to prepare and update assess the assessment requirements;     Ability to supervise inspectors unde     Ability to analyse, judge and make d     Ability for appropriate project and s     Effective communication skills;     Writing and editing skills for prepari     Good quality of work;     Impartial and non-discriminatory be	r supervision works; lecisions; elf-organisation; ng technical reports;
		The technical lead evaluator may be supported by:  > (lead) inspectors for inspection activities (ref. Annex G of this document), and;  > (lead) auditors for the quality management system approval (ref. Annex H of this document).	If needed, the QMS lead auditor can be supported by QMS auditors.			If a project involves several inspectors or subcontracted activities, one inspector shall be nominated as "lead inspector".