## 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	I
			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 lead evaluator activities relat within the sco Where approp may support t auditor acting The inspector mentor to oth
			Training and experience		
			General		
One or more of the following possibili					
<ul> <li>MASTER university degree (or equival + 6 years of proven professional</li> </ul>	alent) in a relevant subject + 3 years of proven professional	+ 3 years of proven professional	+ 3 years of proven professional	+ 1 year of proven professional	+ 3 years of pr
experience preferably relevant for the railways;	experience preferably relevant for the railways;	experience relevant for the technical scope in which the person is intended to work;	experience relevant to quality management systems relating to a technical area, preferably in railways;	experience relevant to quality management systems relating to a technical area, preferably in railways;	in which the p
> BACHELOR university degree (or equ	livalent)				
+ 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 pr in which the p
> Relevant technical vocational trainin	gs in the field of the scope of the assess	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 pr in which the p
			Specific in addition to General		
Sound knowledge and	<ul> <li>Training (internal or external) on the</li> </ul>	-	<ul> <li>Training (internal or external) on the</li> </ul>	relevant requirements for the CAB insp	ection processes
understanding of the relevant requirements for the CAB certification processes based on EN	inspection processes based on EN ISO/IEC 17020, EN ISO/IEC 17021-1 and EN ISO/IEC 17065; > Proven experience (e.g. 5 > Proven experience (e.g. more than		<ul> <li>Specific training as auditor (internal of 17021-1 lasting at least 5 working days training</li> </ul>	<ul> <li>Proven expension</li> <li>ISO/IEC 17020</li> <li>one project and</li> </ul>	
ISO/IEC 17065 and the testing, inspection and auditing processes	completed projects) in any scope of	one completed evaluation project) in	for lead auditing;	for auditing;	competences
based respectively on EN ISO/IEC	assessment (cf. Annex D), with at least one in the following roles: lead	any the scope of assessment (cf. Annex D) as at least one of the	<ul> <li>Participation in QMS audits in the rai</li> </ul>	lway domain as follows:	intended to w
17025, EN ISO/IEC 17020 and EN	inspector or QMS lead auditor.	following: (lead) inspector and/or	a) For <i>initial nomination</i> as	1	
ISO/IEC 17021-1.		QMS (lead) auditor.	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>		

Inspector Lead inspector						
or supports the technical for in performing the ated to inspections cope of assessment. opriate, the inspector t the auditor or the lead ng as technical expert. or may also act as ther 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.					
proven professional experience relevant for the technical scope person is intended to work;						
proven professional experience relevant for the technical scope person is intended to work						
proven professional experience relevant for the technical scope person is intended to work.						

ses based on EN ISO/IEC 17020 and EN ISO/IEC 17065;

sperience of at least 1 year as mentoring period according to EN D20 point 6.1.6 including minimum participation in more than t and documented final positive assessment of his/her tes in the relevant technical scope in which the person is to work as inspector.

Decision maker	Technical reviewer	Technical lead evaluator	QMS lead auditor	QMS auditor	Inspector	Lead inspector
			- during the last 24 months before no	mination 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;			
			- with a duration of at least one day;			
			- during the last 36 months;			
			- at the level of "lead auditor".	- at the level of "QMS auditor".		
			c) For <i>re-nomination</i> as			
			Lead auditor	QMS auditor		
			(where requirement b) has not been r			
			Participation in at least 1 QMS audit:			
			- related to the IOD;			
			- in a team of at least 2 persons;			
			- with a duration of at least one day;			
			at least at the level of "auditor in train			
			ISO/IEC 17021-1) during the last 6 mo			
			Knowledge			
			Legal framework			
Sound knowledge and understanding	on the following topics:			ng of railway related European legal frai	mework, including vocabulary (e.g. IOI	2016, TSIs and modules, Regulation
	t, EC suitability of use, EC verification, A	rticle 15 and Annex IV on the role of	2019/250)			
-	uthorisation for the placing in service of		<ul> <li>General application of an QMS and</li> </ul>			
-	et; role of applicant, NoBo, DeBo, Assess		relevant aspects of safety related			
	e/renewal of an existing subsystem; Eur		aspects of a project when applied to			
legal framework.			the railway technology production			
	/EU on railway modules, difference bety	ween module with QMS and without	process;			
QMS, applicable modules according to			<ul> <li>Typical operation and maintenance</li> </ul>			
	em per TSI, concepts of mandatory stan	dards, harmonised standards,	of the product;			
-	s of compliance, alternative solutions.	4	<ul> <li>Typical design/production defects</li> </ul>			
	tock and on-board control-command an	Id	of this or similar products/			
signalling subsystems): PA VA.			technology and on previous defects			
> RSD 2016: Regulation on CSM-RA, leg			of which have materialised in			
Regulation 2019/250: the	> Interrelations to the RSD 2016 and to	-	previous applications of this or similar products/ technology –			
templates for 'EC' declarations and	of roles and responsibilities and risk an	, ,	limited to those defects which could			
certificates for railway interoperability constituents and	<ul> <li>EN ISO/IEC 17065 and the relevant re processes based on EN ISO/IEC 17020,</li> </ul>	-	interfere with safety, health, the			
subsystems, the declaration of	17025 in combination with the ERA As		environment or any other essential			
conformity to an authorised railway	<ul> <li>ERA documents: technical opinions, 1</li> </ul>		requirement as defined by IOD			
vehicle type and on the 'EC'	documents, ERA guidance, lines to tak	-	2016.			
verification procedures for	<ul> <li>Documents of the Coordination grou</li> </ul>					
subsystems.	IOD 2016): RfU and Q/C.	· · · · · · · · · · · · · · · · · · ·				
	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					
	<ul> <li>ability to understand and evaluate the content of the industrial</li> </ul>					
	standards which can be used at					
	standards which can be used at designing or manufacturing phases.					

Decision maker	Technical reviewer	Technical lead evaluator	QMS lead auditor	QMS auditor	Inspector	Lead inspector
<ul> <li>General knowledge and understanding of all the areas from Annex D. (Normative) List of technical topics per scope of assessment.</li> </ul>		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 o	n the relevant parts of Annex D:
			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 standards which can be used in the designing or manufacturing phases.</li> </ul>	
			Non-technical skills			
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.	<ul> <li>&gt; Knowledge and understanding of the interfaces with other technical scope related to interoperability and safe integration;</li> <li>&gt; Ability to analyse and verify that the technical documents that are part of the Evaluation file cover all relevant requirements;</li> <li>&gt; Ability to recommend or not recommend the certification if the product evaluation project does or does not fulfil the quality requirements;</li> <li>&gt; Good quality of work;</li> <li>&gt; Impartial and non-discriminatory</li> </ul>	cal       > Ability to form and coordinate a         project evaluation team;       > Ability to manage subcontracted         project evaluation activities;       > General knowledge of         all       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.	the assessment requirements;	
		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.			<ul> <li>teams;</li> <li>Ability to coordinate inspectors' works;</li> <li>Ability to supervise subcontracted activities.</li> <li>If a project involves several inspectors or subcontracted activities, one inspector shall be nominated as "lead inspector".</li> </ul>