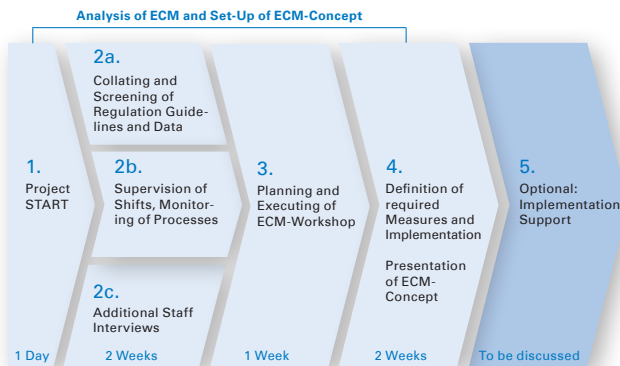


Why do You need ECM?



The requirements for the verification and documentary proof of safe rail transport have changed significantly in the past few years. In Germany for example, according to §4a of the General Railway Act (GRA/ AEG Allgemeines Eisenbahngesetz), all ECM (Entities in Charge of Maintenance) are obliged to establish rules ensuring a safe status of their rolling stock. The obligation to provide certification of a maintenance system according to Regulation 445/2011/EC currently exists for rail freight transport only but it is expected that it will also be required for rail passenger transport by 2018 at the latest. We are happy to support your company preparing for the ECM-Certification by offering a standardized analysis and definition of a tailored ECM-Concept.



 **TÜVRheinland®**
Precisely Right.

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Am Grauen Stein
51105 Cologne
Germany
www.tuv.com



Entity in Charge of Maintenance (ECM).

Consulting prior to Certification.

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ECM-Analysis and ECM-Concept

All relevant information and data sources will be reviewed with regard to a future implementation of ECM-Regulations. A complete analysis will ensure compliance with legal requirements such as:

Organisation	<ul style="list-style-type: none">Organizational ChartRange of Maintenance ServicesWorkshops (incl. Mobile Units) / EngineeringExternal Services
Management System	<ul style="list-style-type: none">Description of Roles, Processes and FunctionsIf available: QMS Manual, Safety Management System, Risk Management System
Rules and Regulations	<ul style="list-style-type: none">Maintenance Concept and InstructionsChecklists, Forms etc.IT-Tools, current Status of IT-SupportProcess and Work Instructions
Data	<ul style="list-style-type: none">Data on Fleet (Type, Number, Age etc.)Examples and Maintenance of Vehicle Files, Work Assignments, Inspection and Approval Reports, etc.Staff Qualification

Next, our experts evaluate selected procedures and accompanying shifts. They will then produce a report addressing:

- Process conformity and stability
- Nature and extent of maintenance procedures
- Possible deviations from regulations
- Use of resources (material, human resources, workshop equipment, vehicles)
- Documentation

Early in the analysis process, involved staff will be interviewed. Preexisting information will be verified and upcoming items from the employees' point of view will be identified.

Staff Training
Document Management
Risk Management
Staff Qualification
Engineering
Planning/Dispatching/Controlling
Procurement/Products/Service
Incoming Goods
Quality Supervision

An ECM-Workshop will be carried out on the following topics:

- Functions of ECM 1 to ECM 4
- ECM-Checklist according to Annex III 445/2011/EC
- Application of Risk Analyses (352/2009/EC, 402/2013/EC, DIN 27201)
- CSM Monitoring (1078/2012/EC)

Finally, we will define an ECM-Concept, covering your needs, to introduce ECM-Regulations in your company.

This will include:

ECM-Concept

- Integration of the four ECM-Functionalities into the Company Organization
- Definition of a Tailored Process Model
- Linkage of Organizational and Operational Structures (Organization Chart, Processes)
- ECM-Communication Matrix
- Recommendations on Potential IT-Support during the ECM-Implementation
- Integration of ECM into Existing Management Systems
- Set-up of a Concept concerning Risk Management and Internal Monitoring
- Project Planning for ECM-Implementation (Schedule, Resource Planning, Responsibilities)

We are also happy to assist you in the subsequent roll-out of the ECM-Concept.

Please contact our Operation & Maintenance Department for further details or a non-binding consultation.

Contact:

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