



About us

EMSCHER Gesellschaft für Wassertechnik mbH (shortform: Emscher Wassertechnik) with headquarters in Essen/Germany is a progressive company providing engineering services connected to topics of water and soil.

Our numerous industrial and municipal customers would agree that EMSCHER Wassertechnik is a recognized leader in the field of wastewater management and geotechnical engineering services.

As company of Emschergenossenschaft EMSCHER Wassertechnik offers excellent engineering competences as well as a widely diversified range of services based on interdisciplinary work methods and many years of experience gained in both national and international markets.

Your contact persons

Improve your operating maintenance processes on base of an effective and reliability centred method.

Appeal to us. We are looking forward to consult you.

Deetje Wiese

Head of Operating Department
Phone: +49(0)201/3610-260
wiese@ewlw.de

Andreas Najelski

Project Leader RCM
Phone: +49(0)201/3610-310
najelski@ewlw.de

Emscher Gesellschaft für Wassertechnik mbH

Brunnenstr. 37 • D-45128 Essen, Germany
Phone: +49(0)201/3610-0
Telefax: +49(0)201/3610-100
info@ewlw.de • www.ewlw.de

Management:

Dr.-Ing. Emanuel Grün
Dr.-Ing. habil. Holger Scheer
Josef Schön

Optimization of Operation and Maintenance of Wastewater Plants



Reliability Centred
Maintenance

RCM



Reliability Centred Maintenance

Our Services

Your Benefits

Analysis in three steps:

1. Risk assessment of the plants

- Low risk: analysis of maintenance measures
- High risk: RCM-Analysis

2. FMEA (failure modes and effect analysis)

- Determination of functions, failures, effects

3. Definition of appropriate maintenance measures and time intervals

Participants of the analysis process:

- Facilitator (moderator)
- Operational staff
- Maintenance staff

Planning, realization and consultancy for a reliability centred and efficient maintenance:

- Personnel training in methods
- Plant analysis by facilitators of diverse fields
- Development of standard rules for determination of measures
- Definition of individual measures for operation and maintenance
- Intermediation of special knowledge in operating and maintenance of wastewater plants
- Consultation in optimization of spare parts management

DEFINITION

- **Reliability centred Maintenance (RCM)** is an analysis procedure providing reliable basics for the continuous, safe and cost-optimized operation of technical plants or processes.

Objectives of Reliability Centred Maintenance:

1. Analysis and standardized documentation of plant functions and possible failures:

- Securing of the requested availability of the plant

2. Derivation of optimized servicing and inspection measures:

- A court-proofed documentation
- Transparency and transmission of knowledge and experience

3. Standardized regulation of processes:

- Standardizing of operational procedures
- Standardization of maintenance measures
- Efficiency improvement by cost reduction

4. Conduction of the analysis before starting-up of new plants:

- Acquisition of the plant functionality
- Recognizing and eliminating of design faults