

Rail Services

North America Asia, Europe

ECE Global is a Global Partner in Engineering, Quality and Safety Compliance.

ECE Global is a provider of technical engineering verification, testing and conformity services for rail vehicles and components.

Our team of engineers and experts in welding technology, non-destructive testing, construction surveillance, quality management and certification provides an array of professional support.

Our passion for and expertise with national and international applications allow us to adapt with evolving needs.

We strive to build lasting and trusting relationships by earning your confidence with providing measurable results and return on investment.

Let us earn your trust.
Thank you!

ECE Global
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ECE Global

Your Global Partner in Engineering, Quality and Safety Compliance
Design – Fabrication – Inspection – Certification

Our expertise extends to New and Used Railcars, Intermodal Equipment and Locomotives. We work hard at helping you accomplish your objectives for the design, manufacturing, testing, and certification of rail equipment.

ECE Global's team of engineers utilizes their knowledge of the US MSRP, EN and other standards and years of working with the rail industry to help our clients be proactive and successful. We work hard to help our clients optimize resources.



**Over 400 Railroad Clients
served by ECE Global –
North America, Asia, Europe**

Scope of Railroad Services

New Construction

- Cost / Project Estimation
- Engineering Support
- Pre-fabrication Assessments
- Welding Qualifications/Approvals
- Inspection Services (NDE, CWI)
- Construction Surveillance
- As-built Inspections / Validations

Supply Chain Validation Services

- Supplier Audit / Surveillance
- AAR Rule Compliance
- EN 15085 / ISO 3834 Assessments
- Fabrication Resource Assessments
- Resource Qualification Audits

Equipment Lease Return or Sale

- Joint Inspection
- Can represent either party to the transaction
- Asset Appraisal Inspections
- Standard third-party inspections
- Comprehensive inspections provide reconditioning data
- Monitor Shop Repair Programs
- Certified Welding Inspectors (CWI)
- Side Frames, Beams, Springs etc.
- Brake Shoes, Rods & Levers etc.

Inspection Services

- HM-201 Re-qualification
- Non-Destructive Examination (NDE)
- Phased Array UT (PA)
- Non-Destructive Examination (NDE) (LT, MT, UT, UTT, PAUT, VT)
- As-built Inspections

Provide Inspection of Damaged Railcars

- Prior to Authorizing Repairs
- Inspection of Repairs

Engineering Management

- Compliance Assessment & Up-dates
- Vendor Audits (Fabricators)
- QA Weld Management & Planning
- QA Inspection Management & Planning
- Weld Coordination

Weld Joint Classification

Engineering Codes / Assessments

- Weld Shop Requirements
- Classification of Parts / Assemblies
- Certification Background

Welding Drawing Requirements

- Weld Detail Review (Joint Design & Procedure)
- Weld Seam Quality Review & Support
- Weld Mapping & Log Preparation

Welding Management

- QA Weld Management
- Material Receiving & Handling Procedure Support
- Material Identification / Traceability
- Review / Evaluation of Existing Approvals
- Development of Approval Plan
- Working with Welders on Floor prior to Testing (rendering support)
- Welding Procedure Approvals
- Welder Qualifications
- Welding Operator Qualifications

Pre-Certification Services

- QA System Pre-Audit / Gap Assessment
- Weld Shop Requirements

Training

- Welder Training
- Welding Coordinator / Supervisory
- Inspection Personnel Training
- QM System Training
- Supervisors on Rules and Tasks
- Inspection Codes & Requirements

Rail Services

North America

Asia, Europe

ECE Global is a Global Partner in Engineering, Quality and Safety Compliance.

ECE Global provides value adding services to companies with many different experience, background and standard knowledge.

Our goal is to support the desired business object with sustainable plans, processes and executable strategies.

Our team of engineers and experts in welding technology, non-destructive testing, construction surveillance, quality management and certification provides an array of professional support.

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Our portfolio includes, but is not limited to:

- Manufacturer Qualifications
- New and Used Railcars,
- Intermodal Equipment and
- Locomotives

New Constructions

- Cost / Project Estimation
- Engineering support
- Pre-fabrication assessments
 - Weld joint design
 - Fabrication requirements
 - Inspectability studies



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Scope of Railroad Services

EN 15085
Certification for Welding
of Railway Vehicles and
Components (CWRVC)

- Assessments for compliance with implemented AWS requirements
- Gap Analysis / Pre-Assessment
- Welding Coordinator Training
- Certification Services
- Inspection / Testing Services
- Issuance of Vendor Performance Records
- Construction Surveillance

AWS D15.1
Railroad Welding
Specification for
Cars and Locomotives

- AWS System Assessment
- Gap Analysis / Pre-Assessment
- Assessment for compliance with implemented EN / ISO requirements
- Training for Welding Supervisory
- Development of Systems
- Issuance of Vendor Performance Records
- Construction Surveillance

Welding
Assessment / Approval
WPQR, WPS, W-PC
Quality Systems

- Training for Welding Supervisory
- WPQR Testing / Approval
- WPS Approvals
- Welder Performance Qualifications
- Inspection Personnel Training
- Construction Surveillance
- Weld mapping and log preparation
- Material identification and traceability
- Welding qualification program

ECE Global is proud to be a member of AWS and participant in the standard development process for AWS D15.1

In combination with our knowledge about ISO and EN requirements (e.g. EN 15085, ISO 3834, ISO 15614, ISO 9606) assessing and supporting companies from many parts in the world is a qualification that provides win-win situations in success, performance and sustainability.

Please contact us to find out more about our services.