

**TRAINING**

**EUROPEAN ADHESIVE SPECIALIST**

**EWF 662 EAS**

Complies with Level 2 according EN ISO 21368



**Lijmacademie Training Centre B.V.**

**European certified training  
in adhesive bonding technology**

**Cooperation partner in adhesive  
bonding trainingcourses:**



## Adhesive Specialist

Adhesives are increasingly used industrially as a reliable and efficient joining method. Since the quality and durability of the adhesive bond cannot be determined non-destructively afterwards, extra attention must be paid to the entire adhesive bonding process. The basic requirement here, of course, remains efficiency, with optimal lead times, at acceptable costs. The European Adhesive Specialist training program trains participants to become adhesive specialists with the European recognized diploma EWF 662 EAS. After obtaining the diploma, the participant is authorized and able to:

- Give instructions to EAB's in adhesive bonding processes
- Draw up work instructions
- Make a contribution to quality assurance of the gluing process
- Planning, organization and control of gluing work
- Recognising deviations and knowing how deal with them
- Control and change process parameters of the gluing process control and change them, and
- Has certain competences as defined in ISO 21368 or EN 17460 standard



*Diploma ceremony 1st Dutch speaking EAS group  
Fraunhofer IFAM, April 29, 2011*

This training is reserved for employees aged 20 years and older, with at least 2 years of work experience and an MBO4 or HBO education in a technical direction. In addition, it is particularly suitable for those who, in daily practice, are responsible for production management, work preparation and/or quality control of production processes in which bonding takes place. Should the admission requirements for the exam not be fully met, one can participate in the training as an apprentice or first take the EAB training, for example, and then take an entrance exam. All subject to acceptance by the NIL Adhesives Examination Committee.

## Training content

The training of a total of 120 hours is composed of three modules, each with a theory and practical component. Each module takes 40 hours and is given in a week from Monday to Friday.

### Week 1

Topics in the first module are:

Adhesion, benetting, curing mechanisms

Subdivision of adhesive types

Properties of commonly used adhesives, and

Health and safety and environmental aspects.

### Week 2

Topics in the second module are:

Adhesive properties of different materials

Deformation of materials

Properties of the adhesive layer, and

Surface treatment

### Week 3

Topics in the third and final module are:

Adhesives in practice

Hybrid joints

Aging and durability

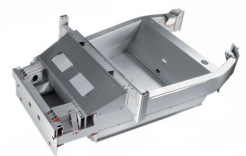
Quality management in adhesive technology

Testing of adhesive bonds, and

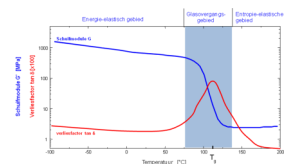
Adhesive selection



Definition of the contact angle  $\alpha$



Bonded Aluminum chassis of the Lotus Elise  
Source: Group Lotus PLC



Glass Transition Region

## Practical training

The practical training is spread over the three weeks. A number of bonded joints are made individually as well as in couples and groups. These bonded joints are performed on aluminum, steel, several plastics, rubber, glass and wood. A series of test plates are made to be destructively tested using a shear test or a peel test. This involves varying surface treatment, curing and test temperature, overlap length, adhesive layer thickness and adhesive part stiffness. The findings are tested against theoretical expectations and discussed together.

*Photographs taken during previous practica*



*Destructive Testing*

*Mixing and application of  
a 2C Epoxy*



*Surface cleaning in an ultrasonic  
IPA bath in the fume hood*



## Exams

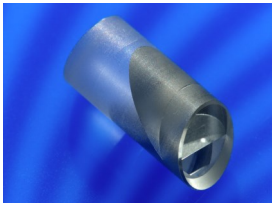
Each week is completed with a written test of multiple choice and/or open questions. The practical course is also completed with a test, including a series of individually bonded samples for peel and shear tests. The entire course is tested with an oral examination. If this is also successful, the participant receives the diploma EWF 662 European Adhesive Specialist.



*Bonded sports shoes*



*Two component adhesive  
with static mixer*



*Adhesive bonded joints in  
optical instruments*

<b>Duration training</b>	<b>3 times 1 week including practical training and exams (120 hours total)</b>
<b>Training costs</b>	<b>Euro 1.950 per week, including course material and lunch costs, but excluding travel and accommodation and examination fees. NIL charges until 09-2024 Euro 895,- Mentioned prices exclude VAT</b>
<b>Training dates</b>	<p><b>EFW/NIL 662 EAS 2024 for the weeks: 28, 29 and 30 (English):</b>            Week 01 – from Monday the 8th of July until friday the 12th of July            Week 02 – from Monday the 15th of July until friday 19th of July            Week 03 – from Monday the 22nd of July until friday 26th of July</p> <p><b>EFW 662 EAS 2024 week 37, 41 &amp; 45 (Dutch):</b>            Week 1 – from Monday the 09th of September until friday the 13th of September            Week 2 – from Monday the 07th of October until friday the 11th of October            Week 3 – from Monday the 04th of November until friday the 08th of November</p> <p><b>EFW 662 EAS 2024 week 39, 44 &amp; 48 (Dutch):</b>            Week 1 – from Monday the 23rd of September until friday the 27th of September            Week 2 – from Monday 28th of October until friday the 01st of November            Week 3 – from Monday 25th of November until friday the 29th of November</p> <p><b>EFW 662 EAS 2025 week 07, 11 &amp; 15 (Dutch):</b>            Week 1 – from Monday 10th of February until friday the 14th of February            Week 2 – from Monday 10th of March until friday the 14th of March            Week 3 – from Monday 07th of April until friday the 11th of April</p> <p><b>EFW 662 EAS 2025 week 20, 23 &amp; 26 (Dutch):</b>            Week 1 – from Monday 12th of May until friday the 16th of May            Week 2 – from Monday 02nd of June until friday the 06th of June            Week 3 – from Monday 23rd of June until friday the 27th of June</p> <p><b>EFW 662 EAS 2025 week 38, 39 &amp; 40 (English):</b>            Week 1 – from Monday 15th of September until friday the 19th of September            Week 2 – from Monday 22nd of September until friday the 26th of September            Week 3 – from Monday 29th of September until friday the 03rd of October</p> <p><b>EFW 662 EAS 2025 week 41, 45 &amp; 50 (Dutch):</b>            Week 1 – from Monday 06th of October until friday the 10th of October            Week 2 – from Monday 03rd of November until friday the 07th of November            Week 3 – from Monday 08th of December until friday the 12th of December</p>
<b>Location:</b>	<p>Lijmacademie B.V.            Ericssonstraat 2            5121 ML Rijen, Netherlands</p> <p>Plus demonstration day at Fraunhofer IFAM in Bremen, Germany (if possible)</p>
<b>The number of participants is minimum 6 and maximum 12 persons</b>	

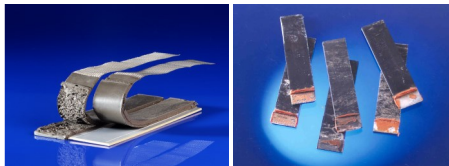


Voor meer informatie: [www.lijmacademie.eu](http://www.lijmacademie.eu)

## Registration

Training dates can be found at [www.lijmacademie.eu](http://www.lijmacademie.eu). Via “register” on our website you can send a message to register for one of our courses.

Of course, you can also call: +31 85 303 1227.



*Adhesive test pieces for the purpose of a peel test (left) and shear test (right)*

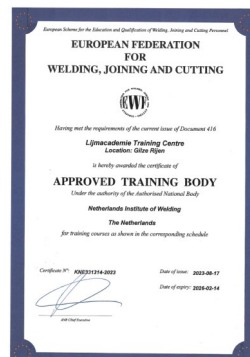
## More information

This training is provided by Lijmacademie, certified by the Netherlands Institute for Welding Technology (NIL) and the Belgium Institute for Welding Tecnology (BVL) as an EWF Approved Training Body (ATB) for the courses European Adhesive Bonder (515 EAB), European Adhesive Specialist (662 EAS) and European Adhesive Engineer (662 EAE).

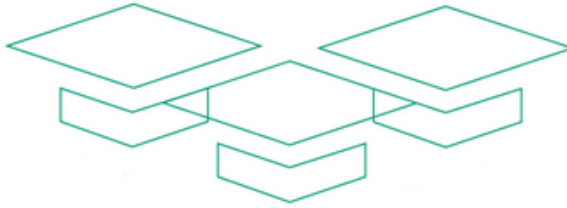


## Contact

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Voor meer informatie: [www.lijmacademie.eu](http://www.lijmacademie.eu)



# **lijmacademie**

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