

Lijmacademie

TRAINING

EUROPEAN ADHESIVE SPECIALIST

EWF 662 EAS

Complies with Level 2 according EN ISO 21368



Practical



Theory



Examination

Lijmacademie Training Centre B.V.

Cooperation partner in adhesive bonding trainingcourses:

European certified training
in adhesive bonding technology

 **Fraunhofer**
IFAM

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, benatting, 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

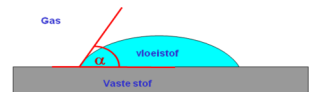
Hybrid joints

Aging and durability

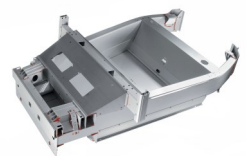
Quality management in adhesive technology

Testing of adhesive bonds, and

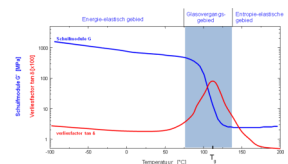
Adhesive selection



Definition of the contact angle α



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



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

*Mixing and application of
a 2C Epoxy*



Exams

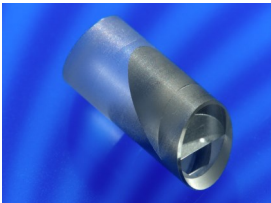
Each week is completed with a written test of multiple choice and/or open questions. The practical course is also completed with a test, including a series of individually bonded samples for peel and shear tests. The entire course is tested with an oral examination. If this is also successful, the participant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



Bonded sports shoes



*Two component adhesive
with static mixer*



*Adhesive bonded joints in
optical instruments*

Duration training	3 times 1 week including practical training and exams (120 hours total)
Training costs	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
Training dates	EFW 662 EAS 2024 week 28, 29 & 30 (English): Week 1 - Monday July 08 till Friday July 12 (comb. EAB) Week 2 - Monday July 15 till Friday July 19 Week 3 - Monday July 22 till Friday July 26 EFW 662 EAS 2024 weeks 37, 41 & 45 (Dutch): Week 1 - Monday September 09 till Friday September 13 Week 2 - Monday October 07 till Friday October 11 Week 3 - Monday November 04 till Friday November 08 EFW 662 EAS 2024 weeks 39, 44 & 48 (Dutch): Week 1 - Monday September 23 till Friday September 27 Week 2 - Monday October 28 till Friday November 01 Week 3 - Monday November 25 till Friday November 29
Location:	Lijmacademie B.V. Ericssonstraat 2 5121 ML Rijen Netherlands Plus demonstration day at Fraunhofer IFAM in Bremen, Germany (if possible)

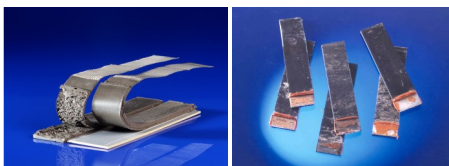
The number of participants is minimum 6 and maximum 12 persons



Registration

Training dates can be found at 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).

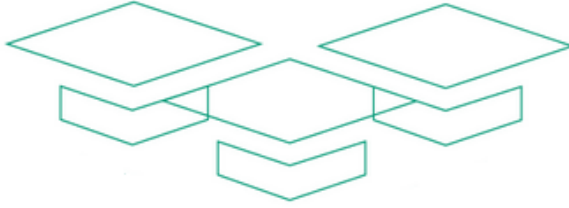


Contact

Lijmacademie Training Centre B.V.
Mrs. Tineke Hoeijmakers
Ericssonstraat 2 – Gebouw Gate 2
5121 ML Rijen, Nederland
+31 85 303 1227
info@lijmacademie.eu



Voor meer informatie: www.lijmacademie.eu



lijmacademie

Ericssonstraat 2—Gebouw Gate 2
5121 ML Rijen | Netherlands
Info@lijmacademie.eu
+31 (0) 85 303 1227

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