

Module 1

Biological support

Laboratory data interpretation and recommendations for substrate feeding.

Aim: Maximum sustainable biogas yield from available input substrates.

Price in Germany: 3.600,- €/a, net, no on-site visit

Module 2

Hazard assessment

Preparation of a hazard assessment for the operation of a biogas plant. Evaluation of plant safety and development of appropriate safety measures.

Price in Germany: 3.900,- €, net, incl. two on-site visits

Module 3

Explosion safety document and layout

Preparation of an explosion safety document including explosion zones layout drawing for the operation of a biogas plant. Evaluation of appropriate safety measures.

Price in Germany: 2.500,- €, net, incl. one on-site visit

Module 5

Hazardous incident document

Preparation of a hazardous incident document according § 8 12.BImSchG.

Price in Germany: 2.900,- €, net, incl. one on-site visit

Module 6

Plant inspection before examination by local authorities

Plant inspection by an experienced engineer before a formal examination. This gives the operator the chance to correct potential defects and will shorten time and efforts during and after formal examination.

Price in Germany: 1.800,- €, net, incl. one on-site visit

Module 7

Maintenance schedule

Implementation of „all“ necessary maintenance tasks for the specific biogas plant into a maintenance software. The software reminds the operator to the open tasks and provides a tool for professional recording of the finished maintenance works.

Price in Germany: 3.900,- €, net, incl. two on-site visits

Module 8

Functional safety (SIL)

Identifying of risks from instrumented systems. Determination of the required safety integraty level (SIL).

Price in Germany: 2.300,- €, net, one on-site visit

Module 9

Safety related support for cleaning of digestion tanks

Determination of the required work steps and preparation of a hazard assessment for the cleaning of a digestion tank. On-site instruction in safety procedures for internal and external workers.

Price in Germany: 3.400,- €, net, incl. two on-site visits

Module 10

Instruction of external companys

Safety related instruction of external companies for works with high potential risk. Checking of necessary documentation (i.e. hazard assessment) from external company.

Price in Germany: 1.950,- €, net, one on-site visit

Module 11

Yearly operator training

On-site safety related operator training. Presentation of different topics adapted to the needs of the specific biogas plant.

Price in Germany: 1.950,- €, net, one on-site visit

Module 12

Emergency plan and safety exercise

Determination of possible emergencies and preparation of an emergency plan. Presentation of the emergency plan and performance of a safety exercise during one on-site visit.

Price in Germany: 2.100,- €, net, one on-site visit

Module 13

Technical guideline for the handling of hazardous materials 529

On-site visit related to plant conformity to actual german guideline TRGS 529 (work for production of biogas). Review of existing hazard assessment and implementation of new standards given by TRGS 529.

Price in Germany: 2.300,- €, net, one on-site visit

Module 14

Revision of hazardous incident document

Revision of hazardous incident document as regulated by law.

Price in Germany: 1.500,- €, net, one on-site visit

Module 15

Verification of insurance cover

Review and inspection of existing or future business interruption insurance contract by an experienced lawyer. Recommendations for improvement.

Price in Germany: 1.400,- €, net, no on-site visit