



**Fraunhofer**  
ACADEMY

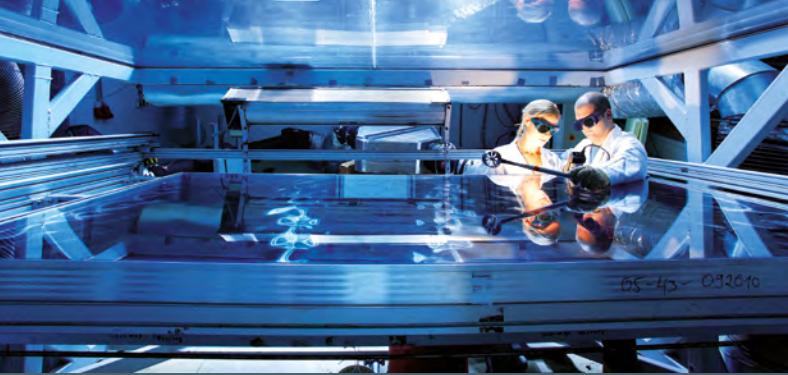
Certificate of Advanced Studies (CAS)

# UNDERSTANDING SOLAR THERMAL ENERGY CONVERSION



In scientific  
corporation with





## SOLAR THERMAL ENERGY – CO<sub>2</sub> FREE HEATING TECHNOLOGY

## YOUR BENEFITS AT A GLANCE

Energy consumption by industry and private households accounts for a significant share of end energy consumption in many countries. Here, a predominant part is used for the heat demand. Part of this need can be compensated by increasing the efficiency of processes and buildings.

Renewable energy, especially solar energy, can cover a significant portion of the remaining energy needs. In this module, the possibilities of using solar energy for heat supply, for the application in private households, industrial processes, commercial real estate, public buildings and other non-residential buildings will be discussed.

Amongst other things, the following questions are investigated:

- How to use solar energy for heat supply in the private and industrial sectors?
- What are the technical potentials and possibilities?

The topics of this training ranges from heat generation and supply, solar thermal technology and system variants to technical characterization and production processes. In addition, simulation methods and the integration of solar thermal energy into architecture are presented and discussed.

- ››› Current and application-related topics
- ››› Part-time scientific training
- ››› Two selectable study formats
- ››› Flexible learning times
- ››› Individual online supervision
- ››› Modern learning platform
- ››› Network building
- ››› Direct contact with experts in applied research
- ››› Innovative learning and teaching methods (scenario-based learning)
- ››› Knowledge transfer with systematic approach
- ››› Certified graduation from University of Freiburg  
*if study format with CAS examination selected*



## PROGRAM OVERVIEW

### Didactics

The scenario-based online learning concept offers a combination of self-study phases, regular online meetings and online supervision. The learning material is provided electronically and knowledge is imparted by a systematic and application-oriented approach.

### Our participants

The part-time Certificate of Advanced Studies (CAS) "Understanding Solar Thermal Energy Conversion" targets the following groups:

- technicians, engineers, specialists and executives from the energy sector
- energy system and power plant optimizers
- planners, consultants, project developers
- political, technical, financial and economic decision-makers

## GENERAL INFORMATION

**Course provider:** Fraunhofer Institute for Solar Energy Systems ISE, Heidenhofstraße 2, 79110 Freiburg, Germany

**Duration:** 6-7 months

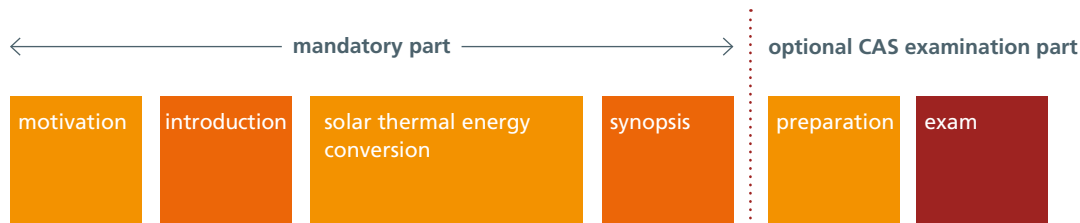
**Two selectable study formats:** 6 month mandatory part for qualifying certificate of attendance plus optional CAS examination part (additional 4 weeks online exam preparation and written exam)

### Participation requirements:

- at least 2 years of professional experience
- bachelor degree or similar qualification in a STEM field OR
- certified technician OR
- master craftsman

Please note that the number of participants is limited!

Please register here: <http://s.fhg.de/NLt>





## DO YOU HAVE FURTHER QUESTIONS...

... regarding the certification program CAS  
"Understanding Solar Thermal Energy Conversion"  
USTEC/similar continuing education offers?

... about further similar  
programs?

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