

Custom, On-site CHEMKIN[®] Training Program

Cost-effective, tailored training delivered at your location by Reaction Design's experts



- ▶ ***“Jump-start” the use of chemistry for more accurate design simulations***
- ▶ ***Customize a training program to focus on your specific application and design goals***
- ▶ ***Maximize the number of company participants trained***
- ▶ ***Expert trainers deliver guided hands-on training***

Detailed chemistry is used by designers to achieve unprecedented levels of accuracy to predict emissions, to reduce by-products in materials manufacturing, and to improve product and process efficiency. Is the accuracy of your predictions effective enough?

Hands-on, supervised training for the use of sophisticated design tools is a cost-effective method to quickly improve the efficiency and effectiveness of modern design workflows. Today, the application of detailed chemistry simulation to clean-combustion and materials-development processes is expanding. As workgroups move to standardize software tools, many leading organizations have made CHEMKIN modeling a key part of their simulation best practices. Engineers who need to come up to speed quickly on the use of combustion chemistry in their CHEMKIN reactor modeling and Computational Fluid Dynamic (CFD) applications, for example, can benefit from targeted training exercises. CHEMKIN training by Reaction Design's experts will definitely improve your group's simulation effectiveness, help standardize the use of chemistry simulation tools and rapidly bring new designers up to speed.

On a quarterly basis, Reaction Design offers “CHEMKIN Fundamentals” courses in San Diego, California. These courses are useful for quickly introducing developers to the basics of kinetic modeling with CHEMKIN software. However, many customers need more focused training for specific, proprietary designs that cannot be easily accommodated in a public training session. If you have a group of individuals that need to develop expertise with CHEMKIN software, Reaction Design's on-site, customized training session has proven to be the most cost-effective way to achieve maximum productivity.

Benefits of on-site CHEMKIN training:

- ▶ Brings expert technical know-how to your development project
- ▶ Makes training of multiple developers cost effective
- ▶ Provides customized curriculum
- ▶ Focuses training on your proprietary processes



Upon the completion of CHEMKIN training, your employees will be able to:

- ▶ Find and use detailed chemical mechanisms and understand their limitations
- ▶ Identify which 0-D and 1-D chemical simulation models are available and which are most appropriate for their application
- ▶ Begin to create effective chemical models of their process
- ▶ Effectively use kinetic modeling to improve their design process and reduce development costs

Custom, On-site CHEMKIN Training has already accelerated time-to-effectiveness for the following organizations:

- ▶ Arnold Engineering Development Center (USAF)
- ▶ Chevron
- ▶ Conoco-Phillips
- ▶ Cummins
- ▶ DOW
- ▶ Ford Motor Company
- ▶ General Motors
- ▶ Honda
- ▶ Mazda Motor Company
- ▶ Mitsubishi Motor Company
- ▶ Nissan Motor Company
- ▶ Petrobras
- ▶ Shell Oil Company
- ▶ Toyota Motor Company
- ▶ Wright-Patterson Air Force Base

Let's get started

For more information on how Reaction Design can deliver the training your employees need to enhance the effectiveness of their chemistry simulation, please contact sales@reactiondesign.com.



About Reaction Design

Reaction Design empowers transportation manufacturers and energy companies to achieve their Clean Technology goals with comprehensive, easy-to-use software simulation tools, chemical models and expert consulting services. Reaction Design is the exclusive developer and distributor of CHEMKIN® and CHEMKIN-PRO™ software — the de facto standards for modeling and simulating gas-phase and surface chemistry. Reaction Design also provides the CHEMKIN-CFD™ software package, extending the capabilities of leading CFD programs. Reaction Design's world-class engineers, chemists and programmers have expertise that spans multi-scale engineering from the molecule to the plant. Today, Reaction Design serves more than 350 customers in the commercial, government and academic markets.

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