

Company specific rheology training

- why arrange a rheology training course on site at our company?



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REOKONSA

We help your company get the right flow

Company specific rheology training course

- why arrange a rheology training course on site at our company?

Why?

Is it relevant for us to have a 1-3 days rheology course at our company? What added value can this give us compared to sending one to several employees on a general rheology course?

By arranging a company-specific course, the content is fully adapted to the company's need for knowledge and rheological theory about the company's products. General courses provide general theory about different types of products and rarely or never the opportunity to measure the company's products or help with the development of relevant measurement methods that reflect the characteristics of the company's products.

How can this **save money** for my business? How can this help my company **take market shares** and **minimize** the number of **complaints**?

Because the company learns how they can predict the quality of the products through their different applications through various tailor-made, application-dependent rheological measurements, thereby minimizing complaints, maximizing consumer experiences of the products and minimizing production waste. By learning to measure the right product properties, many employees throughout the product chain save a lot of time. During one company-specific course, we rheologically solved a customer claim worth SEK 1,000,000 for the company.

Content

Reokonsa AB offers company-specific rheology courses that are fully adapted to the company's needs for rheological theory and practice and the participants' prior level of knowledge.

The courses can be held in Swedish or English.

The length of the course depends on the needs of the company. After the course, Reokonsa AB compiles all results and conclusions from the course in a final report which is sent to the company within 2 weeks after the end of the course. If the company wants to combine the theory around its products, i.e. why the products behave rheologically as they do and how they can develop them further, with practical measurements and thus the development of

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measurement methods that accurately describe how the products behave, 2½ days course is optimal.

Example

Example of how a 2½ day rheology course on site at a company can look like: The company gathers everyone who works with rheology in any form (locally or globally, both production personnel, lab staff, sales persons, managers and product developers) and Reokonsa AB prepares theoretical rheological theory (and many practical examples so that everyone should understand) about the company's products. Day 1 + 2 we have theory half the day and make measurements half the day, when we build relevant measurement methods for the company's products. Reokonsa AB summarizes the results the following morning and we draw conclusions together. Day 3, we summarize and ensure that the company has received answers to all its challenges.

Experiences:

Reokonsa AB's experience of company-specific rheology courses is that:

- After the course, the company knows exactly how to use their rheometer and which measurement parameters affect the measurement results. Before, they often measure part of their range outside the product application areas and thus miss relevant information.

- Companies often have a group of people (product developers, production personnel, sales persons) who order measurements but who do not know how the measurements are performed. And they have a group of laboratory technicians who can measure but do not know why they measure and thus cannot choose the right measuring methods. After the course, these groups understand each other leading to correct, application dependent evaluation of all company products making sure all products meet their requirements.

- After the course, the company has product-adapted measurement methods that describe how their products behave according to their application (they rarely have before the course and thus the company also has products that customers perceive differently but which the company cannot detect with its previous, incorrect, measuring methods). An example is a company that studied and drew conclusions about the quality of a group of products based on their flow behaviour after shearing for 300 s. This product group was sheared just 3 seconds in real life. So now the company sees great differences in product quality between different batches and looks forward to

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saving a lot of money from being able to correct early (before the product goes out to the customer).

- On site at a company we together solved rheologically an acute complaint - worth SEK 1,000,000 SEK for the company.

- Everyone at the company knows after the course why they can not always trust the results from their simple "viscosity cups" or Brookfield viscometer in production, as these do not always measure the relevant product properties.

If you wish to arrange a company-specific rheology course at your company, do not hesitate to contact **Reokonsa AB**.

Contact person

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References are found on our home page (www.reokonsa.se) and on next pages.

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References:

“CO-RO A/S er, med produktion i Danmark, Saudi Arabien, Malaysia og Kina, blandt de største producenter af frugtbaserede soft-drink koncentreter globalt. Den fysiske stabilitet af produkterne afhænger af deres reologiske egenskaber, som må justeres i forhold til den naturlige variation der er i frugtkoncentreter. Det er derfor essentielt at CO-ROs R&D personale er veluddannede i Reologi.

Vi har gennem de seneste år sendt alle vore akademikere til reologi undervisning hos Annika, der altid beskrives som engageret, fagligt velfunderet og erfaren, samt med et stort pædagogisk talent.

De senere år har vi desuden brugt Annika til undervisning af vore laboranter. Annika laver et fint program tilpasset målgruppe og tidsramme, hun er fleksibel og skaber begejstring hos deltagene ved en levende og vedkommende undervisningsform. Vi kan i høj grad anbefale Annika som reologiunderviser og reologikonsulent.”

Christian Vestergaard,
Manager R&D Projects
CO-RO A/S

“Jag träffade Annika för första gången 2002, då hon höll en grundkurs i reologi. Annika är en otroligt duktig och engagerande pedagog. Hon har en utomordentlig god förmåga att göra ett komplext ämne begripligt samt att väcka ett intresse för att vilja veta mer.

Jag har även haft förmånen att få arbeta med Annika i ett delarbete inom min avhandling som rör karakterisering av salivens reologiska egenskaper [1]. Annikas enorma kunskap och stora engagemang är en väsentlig faktor till att detta arbete kunnat genomföras. Hennes energi och positiva uppmuntran har gjort det till en glädje att arbeta med svåra och komplexa frågor. Tack vare hennes unika professionella och sociala egenskaper samt hennes höga ambitionsnivå är hon en person jag absolut skulle vilja jobba med igen.”

Christina Diogo Löfgren,
Övertandläkare

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1 Diogo Löfgren et al. Int J Oral Dent Health 2015, 1:4
The Challenge of Measuring Viscoelastic Properties of Human Whole Saliva to Fit Clinical Purpose
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“Cementa Research AB är ett företag som bland annat jobbar med metod- och produktutveckling och kunskapsförmedling. Områdena är mineraliska material som cement, betong och kalk. Vi har vi ett flertal tillfällen anlitat Annika Sahlström för att få hjälp inom området reologi med utbildningar, teoretiska frågor och praktisk problemlösning. Dels har vi gått utbildningar som vi sökt upp och fått via informationskanaler, internet och post och dels har Annika skräddarsytt utbildningar för oss och våra kunder i dialog med oss, alltid med nöjda kunder och ett gott resultat.

Kurser etc. är ett bra sätt att lära sig nya saker men det dyker upp frågor som man söker svar på och då har vi med stort förtroende vänt oss till Annika. Att mäta reologiska skeenden är ofta komplicerat och då har Annikas tips varit värdefulla för oss. Att vi vänt oss till Annika är för att hon på ett entusiastiskt och seriöst sätt tar sig an uppgifter och levererar goda resultat; vi kommer också fortsättningsvis att anlita Annika.”

Pentti Koski,
Cementa Research AB

“Vi anlidade Annika för att det fanns ett stort behov av en ökad förståelse för allmän reologi och reologiska frågeställningar som dyker upp i samband med våra produkter och processer. Vi var mycket nöjda med Annikas förmåga att skräddarsy en utbildning för våra behov och framförallt med hennes ytterst pedagogiska och engagerande föreläsningar. Annika gör reologi till ett spännande och roligt arbetsområde.”

Kristoffer Lundgren,
Arla Foods Nordic Innovation
Process Development

“Becker Industrial Coatings AB develops and produces paint for many different applications. We decided that we needed to improve our rheological knowledge and found Reokonsa. Since we were a group of 10 wanting to learn more, we asked Annika to come to us and have a rheology course tailor made for paint. It was for us a big benefit being able to do practical work on our own rheometer with our own products and with our own rheological questions.

Annika is really good in making the subject less confusing and helped us understand how we can use the rheometer in a better way, both during development and production issues.”

Ida Emilsson
Becker Industrial Coatings AB

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