



Customer
For the att. of

Ref. MW2013105

Herentals , 28/1/2014

Re : Invitation for Training Seminar - April 2, 3 and 4, 2014

Dear Sirs,

As our first seminar on tooling and process development in September 2013 was a big success, we are happy to announce that we will repeat this seminar for not native English speaking engineers. The target group is senior engineers, application engineers, junior engineers and tooling engineers !

Title of the seminar is :

“ Metal Forming Technology : from theory to practice” .
Dates : April 2, 3 and 4,2014.

We offer you a very extensive program per enclosed agenda with more detailed information!

Interested ?

Please register now ! Complete the attached “Registration Form” and send it per fax to fax number +32 14 212 936 or e-mail to NedformAcademy@nedschroef.be

A few practical issues :

- Closing date : Feb. 28, 2014
- Max. participants: 25, min. 10 participants
- On first come, first serve basis
- Participants of this seminar receive a free online use on ‘ Calculation of pre-stressed dies’- please see enclosed document.

We look forward to welcome you on this seminar and remain at your disposal for any additional information !

Yours sincerely,

Monique Weuts
General Support

Ferdinand Kersten
Director Nedform Academy

Enclosed :

- Registration Form
- Information sheet
- Calculation of pre-stressed dies
- Brochure Nedform Academy

Metal Forming Technology: From theory to practice

■ Agenda Day 1

- 09.00 Greeting and presentation of the participants
- 09.30 Machining versus coldforming
- 10.15 Break
- 10.45 Materials
- 12.30 Lunch
- 13.30 Basic information force, energy, mechanisms
- 15.15 Break
- 15.45 Basic information force, energy , mechanisms
- 17.00 Conclusion Day 1

■ Agenda Day 2

- 09.00 Basic information force, energy, mechanisms
- 10.15 Break
- 10.45 Progression development- tool materials
- 12.30 Lunch
- 13.30 Prestressing of dies
- 15.15 Break
- 16.00 Machine kinematics
- 17.00 Conclusion Day 2

■ Agenda Day 3

- 09.00 Tool design
- 10.15 Break
- 10.45 Tool examples for the production of complex parts
- 12.30 Lunch
- 13.30 Tips and Tricks
- 14.30 Summary and end conclusion

■ Seminar Materials

- Handbook
- Access Online-Tool
The participants of this seminar will receive free access to an unique calculation programme developed by Nedschroef Herentals. It can be used on the internet with your personal registration data, For more details, see attachment;

■ Meeting Location

- The Nedform Academy is located in the building of Nedschroef Machinery, Brigandsstraat 10, B-2200 Herentals, Belgium. You are staying in Hotel Aldhem in Grobbendonk +/- 10 minutes from Nedschroef Machinery.

■ Hotel Guest Rooms

- Hotel Aldhem
Jagersdreef 1
2280 Grobbendonk
Tel +32 14 501001
Fax +32 14 501013
www,aldhem,be

■ Seminar Fee and registration

- The price to participate is € 2000 excl. 21 % VAT
This price includes the seminar and 3 nights in hotel (1 , 2 and 3 April 2014), 3 x lunch, 3 x diners with drinks during the seminar,

Registration :

Could you, please complete the enclosed document and send it to nedformacademy@nedschroef.be – before January 30, 2014.

■ Contact persons

- For any further questions on this seminar, please contact tel: +3214257141 Monique Weuts , e-mail Monique.Weuts@nedschroef.be or Ferdinand Kersten+3214257156, e-mail Ferry.Kersten@nedschroef.be

REGISTRATION FORM to faxnumber+ 32 14 21 29 36

Nedschroef Machinery
Nedform Academy
For the att. Monique Weuts /Ferdinand Kersten
Brigandstraat 10
B-2200 Herentals
Belgium

REGISTRATION FORM

We hereby confirm that the following person will register for the Seminar :

**Metal Forming Technology
‘ From theory to practice ‘**

on 2, 3 and 4 April 2014

In the conference rooms of Nedschroef Machinery.

Company:	
Name of the participant:	
Function :	
Streetname	
Zip Code and City	
State	
Telephone, Telefax:	
E-Mail:	
VAT NUMBER :	

Date:

Signature

The invoice has to be considered as your confirmation of the registration.

Paymend method:

Please wire the amount of € 2.000 + 21 % VAT per participant to the account number of Nedschroef Herentals N.V. at number .
IBAN BE24 4134 5066 0138, BIC KRED BE BB

Calculation of Pre-stressed Dies

Cold forming processes cause high internal pressures on the dies. These internal pressures lead to high stresses in the dies, which easily induces tool breakage. To increase the allowable internal pressure in the die, the dies are usually pre-stressed by pressing the die insert in one or more rings.

The newly developed program not only calculates the stresses in radial pre-stressed dies, but also the optimum die diameter and the surplus of the die diameter before pressing it into the ring. The maximum allowable internal pressure in the die is the goal of this optimisation. The program also takes the actual mechanical properties of the die and shrink ring materials into consideration, as well as factory internal standard values for a surplus of the die diameter and the use of standardised die diameters.

The calculated radial and circumferential stress in the die and in the shrink rings are graphically displayed.

