

Information sheet

Proficiency tests metal 2014

Organiser:	Institut für Eignungsprüfung IfEP GmbH, Marl, Germany
Registration:	By means of the attached form
Intention:	Confirmation of technical competence of participating laboratories
Data evaluation:	Based on ISO/IEC 17043 and ISO 13528. Normally the participation is approved for accreditations according to NADCAP.
Confidentiality:	Each laboratory receives a specific code number
Documentation:	Confirmation of participation Certificate in case of successful participation Final report with a list of participants in alphabetical order with declaration of consent; determination of measurement uncertainty according to the current standards and guidelines. Details for subcontracting of single parts: please see www.ifep.de , section „proficiency tests“

No. 1401 Hardness Testing Rockwell C	Test Standard:	ISO 6508, part 1, HRC
	Material:	Certified reference hardness test block (MPA NRW Dortmund, Germany) Test material with similar hardness (to be prepared by participants)
	Test program:	3 x five hardness measurements on certified reference hardness test blocks five hardness measurements on test specimens
	Test sequence:	Each hardness test block will be tested by several participants. There will be an arrangement of the dates in advance.
	Results to be submitted:	3 x five hardness values of the hardness test blocks five hardness values of test material
	Assigned Value:	Certified reference values of MPA NRW Dortmund, Germany
	Additional information provided by organiser:	Confirmation of measurement uncertainty of each laboratory based on ISO 6508-1
	Participation fee:	Germany 330 €; other countries + transport costs* estimated start calendar week 05/2014

No. 1402 Testing of fasteners	Test Standard:	ISO 898-1, EN ISO 3506-1
	Material:	Screws
	Production of specimens:	By the organiser
	Results to be submitted:	According to standard, e.g. tensile test
	Assigned Value:	Consensus value calculated from the results of all the participants
	Participation fee:	Germany 320 €; other countries + transport costs* estimated start calendar week 30/2014

No. 1403 Emission spectrometry steel	Test Standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no „synthetic alloy“) a) low alloyed steel b) high alloyed steel
	Results to be submitted:	Characteristic values according to specifications
	Assigned Value:	Consensus value calculated from the results of all participants
	Additional information:	Statements with regard to measurement uncertainty
	Participation fee:	One alloy: Germany 310 €; other countries + transport costs* Two alloys: Germany 550 €; other countries + transport costs* estimated start calendar week 10/2014

No. 1404 Emission spectrometry (non ferrous-metals)	Test Standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no „synthetic alloy“) Al-alloy
	Results to be submitted:	Characteristic values according to specifications
	Assigned Value:	Consensus value calculated from the results of all the participants
	Additional information:	Statements with regard to measurement uncertainty
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start calendar week 10/2014

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No. 1405 Resistance against intergranular attack	Test Standard:	ASTM A262, practice B, Streicher test
	Material:	Stainless steel
	Production of specimens:	By the participants
	Results to be submitted:	Mass loss
	Assigned value:	Consensus value calculated from the results of all participants
	Participation fee:	Germany 310 €; other countries + transport costs* estimated start calendar week 12/2014
No. 1406 Indirect verification of salt spray test chamber	Test Standard:	EN ISO 9227
	Material:	Reference specimens
	Production of specimens:	By the organiser
	Results to be submitted:	Mass loss
	Assigned Value:	Reference value
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start calendar week 12/2014
No. 1407 Tensile test aluminium	Test Standard:	EN ISO 6892-1
	Material:	6 round bar specimens aluminium Specimen diameter $d_0 = 10$ mm or $d_0 = 6$ mm Specimen head ISO thread M16 or M10
	Production of specimens:	By the organiser
	Results to be submitted:	Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty
	Assigned Value:	Consensus values calculated from the results of the participants
	Additional information:	Statement to the measurement uncertainty of the test method
Participation fee:	Germany 330 €; other countries + transport costs* estimated start calendar week 15/2014	
No. 1408 Non-destructive testing	Test Standard:	UT, PT
	Material:	Steel specimens with flaws defined for the test method
	Results to be submitted:	Type / Position / Size of flaws
	Assigned Value:	Sample solution of Fraunhofer IZFP Saarbrücken, Germany
	Test sequence:	Each sample will be tested by several participants. There will be an arrangement of the dates in advance.
	Participation fee:	One method: Germany 350 €; other countries + transport costs* Two methods: Germany 620 €; other countries + transport costs* estimated start calendar week 30/2014
No. 1409 Tensile test steel round bars	Test Standard:	EN ISO 6892-1
	Material:	6 round specimens, steel, Specimen diameter $d_0 = 10$ mm Specimen head ISO thread M16, special shapes possible against payment
	Production of specimens:	By the organiser
	Results to be submitted:	Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty
	Assigned Value:	Consensus value calculated from the results of all the participants
	Additional information:	Confirmation of the individual measurement uncertainty of each laboratory
Participation fee:	Germany 450 €; other countries + transport costs* estimated start calendar week 40/2014	
No. 1410 Tensile test steel flat tensile specimens	Test Standard:	EN ISO 6892-1
	Material:	6 flat specimens, thickness approx. 1 mm, geometry according to EN 6892-1, annex B, table B2, 20 mm width
	Production of specimens:	By the organiser
	Results to be submitted:	Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty
	Assigned Value:	Consensus value calculated from the results of all the participants
	Additional information:	Confirmation of the individual measurement uncertainty of each laboratory
Participation fee:	Germany 330 €, other countries + transport costs* estimated start calendar week 22/2014	

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No. 1411 Charpy impact testing	Test Standard:	ISO 148-1 / ISO 148-2
	Material:	Charpy test specimens, impact energy low level (RT), average level (RT), high level (RT)
	Production of specimens:	By the organiser
	Results to be submitted:	5 values according to ISO 148 each energy level
	Assigned Value:	Reference value, limits according to ISO 148-2
	Additional information:	Measurement uncertainty according to ISO 148-2
	Participation fee:	One energy level: Germany 310 €; other countries + transport costs* Two energy levels: Germany 490 €; other countries + transport costs* Three energy levels: Germany 630 €; other countries + transport costs* estimated start calendar week 25/2014
No. 1412 Cycle loads LCF	Test Standard:	ISO 1206
	Material:	Upon agreement with the participants
	Production of specimens:	By the organiser
	Results to be submitted:	Characteristic values according to the test standard, in accordance with the participants e. g. as per ISO 1206
	Assigned Value:	Consensus value calculated from the results of all the participants
	Additional information:	Hints for the calculation of the measurement uncertainty
	Participation fee:	Germany 750 €, other countries + transport costs* estimated start calendar week 48/2014, in case of sufficient number of participants
No. 1413 Metallography Image analysis	Test Standard:	e.g. EN ISO 643, ASTM E 112 appointment also possible via digital image processing
	Material:	Micrograph; in part simulated, in digital form and as photo
	Results to be submitted:	e.g. grain size, determination of phases
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 245 €; other countries + transport costs* estimated start calendar week 30/2014
No. 1414 Metallography Sample preparation	Test Standard:	e.g. EN ISO 643, ASTM E 112
	Material:	Metallic samples for grinding preparation and analysis
	Results to be submitted:	e.g. grain size, determination of phases
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start calendar week 30/2014
No. 1415 Coordinate metrology tactile and optical	Test Standard:	In house procedure
	Material:	Reference body traced back to PTB, Germany
	Production of specimen:	By the organiser
	Test sequence:	The reference body will be tested by several participants. There will be an arrangement of the dates in advance.
	Results to be submitted:	Measurement of geometrical characteristics
	Assigned Value:	PTB reference value
	Participation fee:	Germany 650 €; other countries + transport costs* estimated start calendar week 25/2014

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No. 1416 Surface temper inspection	Test Standard:	ISO 14104
	Material:	Roller bearings with defined surface temper flaws (imq Ingenieurbetrieb GmbH)
	Test program:	Preparation and execution of the Nital –etching according to ISO 14104
	Test sequence:	Every participant receives one master specimen
	Results to be submitted:	Assessment of the equivalent flaw regarding the kind of surface temper and degree of damage, determination of new hardening- and annealing zone, hardness – depth gradient
	Assigned Value:	Consensus value calculated from the results of all the participants
	Additional information provided by organiser:	Estimation of measurement uncertainty by the participants (for quantitative results, only)
	Participation fee:	Germany 330 €; other countries + transport costs* estimated start calendar week 35/2014

* Prices. excl. valid VAT, transport costs, see www.ifep.eu

Registration Proficiency Tests Metal 2014

via Fax to: **+49 (0) 2365 / 209 00 35** or via E-Mail to: **Sorge@ifep.eu**

We will participate in the following proficiency test(s):

No.	please mark	Proficiency test	Expected Start (calendar week 2014)	Return of the results	Participation fee
1401	<input type="checkbox"/>	Hardness Testing Rockwell C	05	1 week	330 € *
1402	<input type="checkbox"/>	Testing of fasteners	30	4 weeks	320 € *
1403a	<input type="checkbox"/>	Emission spectrometry: low alloyed steel	10	4 weeks	1 alloy: total 310 € * 2 alloys: total 550 € *
1403b	<input type="checkbox"/>	Emission spectrometry: high alloyed steel	10	4 weeks	
1404	<input type="checkbox"/>	Emission spectrometry: Aluminium alloy	10	4 weeks	275 € *
1405	<input type="checkbox"/>	Resistance against intergranular attack	12	4 weeks	310 € *
1406	<input type="checkbox"/>	Indirect verification of salt spray test chamber	12	4 weeks	275 € *
1407	<input type="checkbox"/>	Tensile test aluminium	15	4 weeks	330 € *
1408a	<input type="checkbox"/>	UT, ultrasonic testing	30	1 week	1 method: total 350 € * 2 methods: total 620 € *
1408b	<input type="checkbox"/>	PT, penetrant testing	30	1 week	
1409	<input type="checkbox"/>	Tensile test steel: round bars	40	4 weeks	450 € *
1410	<input type="checkbox"/>	Tensile test steel: flat tensile specimens	22	4 weeks	330 € *
1411a	<input type="checkbox"/>	Charpy impact test low level	25	4 weeks	1 level: total 310 € * 2 levels: total 490 € * 3 levels: total 630 € *
1411b	<input type="checkbox"/>	Charpy impact test average level			
1411c	<input type="checkbox"/>	Charpy impact test high level			
1412	<input type="checkbox"/>	Cycle loads LCF	48	4 weeks	750 € *
1413	<input type="checkbox"/>	Metallography: image analysis	30	4 weeks	245 € *
1414	<input type="checkbox"/>	Metallography: sample preparation	30	4 weeks	275 € *
1415	<input type="checkbox"/>	Coordinate metrology: tactile and optical	25	1 week	650 € *
1416	<input type="checkbox"/>	Surface temper inspection	35	4 weeks	330 € *

A bilateral registration for the proficiency tests after the official start date is still possible!

* Prices for Germany excl. VAT, other countries: Delivery and duty costs will be added to participation fee, see www.ifep.eu

The costs have to be paid to Institut für Eignungsprüfung IfEP in advance. **Specimens will be sent to the participants upon payment by the participant.** The organiser will charge 25 % of the fee if the registration is cancelled four weeks prior to the start of the proficiency test. For cancellations later than this, the full amount will be charged.

Company:		Date / signature /stamp
Department:		
Contact person: <input type="checkbox"/> Ms. <input type="checkbox"/> Mr.		
Address:		
ZIP Code / City:	Country:	<input type="checkbox"/> german <input type="checkbox"/> english
Telephone:	Fax:	E-Mail:
<u>Necessary additional information:</u> Your companies' tax identification number:		
Billing address (if differing):	Delivery address (if differing):	
Further invoice-details, e.g. cost unit:		
I confirm with my signature that the service is carried out for my/our company (and not for a private person).		