

Information sheet

Proficiency tests metal 2016

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:	Certificate 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. 1601-1 Hardness testing Brinell	Test standard:	EN ISO 6506, part 1, HBW 2,5/187,5 and/or HBW 10/3000
	Material:	Certified reference hardness test block (MPA NRW Dortmund, Germany)
	Test program:	five hardness measurements on certified reference hardness test block
	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:	five hardness values of the hardness test blocks
	Assigned value:	Certified reference values of MPA NRW Dortmund, Germany
	Additional information provided by organiser:	Statement to measurement uncertainty
	Participation fee:	HBW 2,5/187,5 or HBW 10/3000: Germany 330 €, other countries + transport costs* HBW 2,5/187,5 and HBW 10/3000: Germany 490 €, other countries + transport costs* estimated start: II. quarter 2016

No. 1601-2 Hardness testing Rockwell C	Test standard:	ISO 6508, part 1, HRC
	Material:	Certified reference hardness test blocks (MPA NRW Dortmund, Germany)
	Test program:	3 x five hardness measurements on certified reference hardness test blocks
	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
	Assigned Value:	Certified reference values of MPA NRW Dortmund, Germany
	Additional information provided by organiser:	Statement to measurement uncertainty
	Participation fee:	Germany 330 €, other countries + transport costs* estimated start: II. quarter 2016

No. 1602 Testing of fasteners	Test standard:	ISO 898-1, EN ISO 3506-1
	Material:	bolts
	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: III. quarter 2016

No. 1603 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: II. quarter 2016	

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No. 1604 Emission spectrometry (non ferrous-metals)	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no „synthetic alloy“) a) Aluminium-alloy b) Nickel based-alloy c) Titan-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:	One alloy: Germany 310 €, other countries + transport costs* Two alloys: Germany 550 €, other countries + transport costs* Three alloys: Germany 750 €, other countries + transport costs* estimated start: II. quarter 2016
No. 1605 Resistance against intergranular attack	Test standard:	EN ISO 3651 part 1
	Material:	Stainless steel
	Production of specimens:	by the participants
	Results to be submitted:	according to standard
	Assigned value:	Consensus value calculated from the results of all participants
	Participation fee:	Germany 310 €, other countries + transport costs* estimated start: II. quarter 2016
No. 1606 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: II. quarter 2016
No. 1607 Tensile test aluminium (round specimens)	Test standard:	EN ISO 6892-1
	Material:	6 round test specimens, aluminium, $d_0 = 6$ mm, specimen head: ISO thread 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 370 €, other countries + transport costs* estimated start: III. quarter 2016	
No. 1608 Non-destructive testing	Test standard:	UT, VT
	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; UT: true value
	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: III. quarter 2016
No. 1609 Tensile test steel round bars	Test standard:	EN ISO 6892-1
	Material:	6 round test 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: III. quarter 2016	

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No. 1610 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: II. quarter 2016
No. 1611 Charpy impact test	Test standard:	ISO 148-1 / ISO 148-2 (2 mm striker)
	Material:	Charpy test specimens, impact energy low level (RT), average level (RT), high level (RT), super 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* Four energy levels: Germany 760 €, other countries + transport costs* estimated start: III. quarter 2016
No. 1612 Mobile Emission spectrometry and XRF	Test standard:	In-house procedure (no stationary machines, see proficiency tests 1603 and 1604)
	Material:	Alloyed steel tube materials, similar to daily laboratory work (no „synthetic alloy“)
	Results to be submitted:	Allocation to steel grade, mix up test
	Assigned value:	Certificate of material
	Participation fee:	Germany 300 €, other countries: + transport costs* estimated start: II. quarter 2016
No. 1613 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 steel / phase content steel / phase content aluminium
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 255 €, other countries + transport costs* estimated start: IV. quarter 2016
No. 1614 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. carbon content, grain size
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €, other countries + transport costs* estimated start: IV. quarter 2016
No. 1615 Tensile test steel aircraft quality	Test standard:	EN ISO 6892-1
	Material:	6 round test specimens, steel, 15-5PH, to be tested at room temperature
	Production of specimens:	by the organiser, specimen diameter $d_0 = 6$ mm, specimen head: ISO thread M10
	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 450 €, other countries + transport costs* estimated start: III. quarter 2016

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No. 1616 Tensile test nickel-based alloy	Test standard:	EN ISO 6892-2
	Material:	6 round test specimens, Inconel 718, to be tested at 650 °C
	Production of specimens:	by the organiser, specimen diameter $d_0 = 6$ mm, specimen head: ISO thread M10
	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 450 €, other countries + transport costs* estimated start: II. quarter 2016	
No. 1617 Tensile test titan alloy	Test standard:	EN ISO 6892-1
	Material:	6 round test specimens, Titan, 6Al-4V, to be tested at room temperature
	Production of specimens:	by the organiser, specimen diameter $d_0 = 6$ mm, specimen head: ISO thread M10
	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 450 €, other countries + transport costs* estimated start: II. quarter 2016	
No. 1618 Izod test steel	Test standard:	BS 131-1
	Material:	Steel, sections for production of five specimens
	Production of specimens:	by the participants
	Results to be submitted:	Characteristic values according to the test standard
	Assigned value:	Consensus value calculated from the results of all the participants
	Additional information:	Measurement uncertainty of test procedure
Participation fee:	Germany 350 €, other countries + transport costs* estimated start: III. quarter 2016	
No. 1619 Stress rupture test nickel-based alloy	Test standard:	ASTM E139, BS EN ISO 204, ASTM E292
	Material:	Inconel 718
	Production of specimens:	by the organizer, according to ASTM E8, diameter 6 mm
	Results to be submitted:	Characteristic values according to the test standard
	Assigned value:	Consensus value calculated from the results of all the participants
	Additional information:	Measurement uncertainty of test procedure
Participation fee:	Germany 450 €, other countries + transport costs* estimated start: IV. quarter 2016	
No. 1620 Length measurement	Test standard:	In house procedure related to VDI/VDE/DGQ 2618, Part 9.1 and 10.1 calliper and micrometer gauge
	Material:	calibrated gauge blocks
	Test program:	Measurement of the final-dimensions
	Test sequence:	The gauge blocks are measured by several participants. There will be an arrangement of the dates in advance.
	Results to be submitted:	a) 5 measurements calliper gauge b) 5 measurements micrometer gauge
	Assigned Value:	Certified reference value
	Additional information:	Information on the measurement uncertainty
	Participation fee:	Germany 350 €, other countries + transport costs* estimated start: IV. quarter 2016
No. 1621 Hardenability test by end quenching	Test standard:	EN ISO 642 (Jominy test)
	Material:	5 specimens, normalized, 25 mm x 100 mm
	Production of specimens:	by the participants
	Results to be submitted:	Characteristic values according to the test standard
	Assigned value:	Consensus value calculated from the results of all the participants
	Additional information:	Measurement uncertainty of test procedure
Participation fee:	Germany 310 €, other countries + transport costs* estimated start: III. quarter 2016	

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No. 1622 Replica technique	Test standard:	Technical guideline VGB-S-517-00
	Material:	Replica; Micrograph images of heat resistant steel
	Test procedure:	Every participant receives replicas of heat resistant steel for classification
	Results to be submitted:	Statement of evaluation class according to VGB-S-517
	Assigned Value:	Consensus values calculated from the results of the participants
Participation fee:	Germany 330 €, other countries + transport costs* estimated start: III. quarter 2016	
No. 1623 Tensile test steel for the reinforcement	Test standard:	EN ISO 15630-1, EN ISO 6892-1
	Material:	6 reinforcing bars
	Production of specimens:	by the participants
	Results to be submitted:	according to the test standard, additionally Young's Module and the measurement uncertainty (not evaluated)
	Assigned Value:	Consensus values calculated from the results of the participants
	Additional information:	Measurement uncertainty of test procedure
	Participation fee:	Germany 310 €, other countries + transport costs* estimated start: III. quarter 2016
No. 1624 Determination of purity	Test standard:	e.g. EN 10247, DIN 50602
	Material:	Micrographs
	Results to be submitted:	Determination of metallic inclusion
	Assigned Value:	Consensus value
	Participation fee:	Germany 295 €, other countries + transport costs* estimated start: IV. quarter 2016
No. 1625 Surface roughness	Test standard:	All applicable standards allowed
	Material:	Reference specimens
	Production of specimens:	by the organiser
	Test procedure:	Each participant receives a reference specimen
	Results to be submitted:	R_a , R_z , R_{max}
	Assigned Value:	Reference value
	Participation fee:	Germany 280 €, other countries + transport costs* estimated start: III. quarter 2016
No. 1626 Alternating climate test	Test standard:	VDA 233-102
	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: III. quarter 2016

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

Registration proficiency tests metal 2016: part 1
via fax to: **+49 (0) 2365 / 209 00 35** or via e-mail to: **Sorge@ifep.de**

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

No.	please mark	Proficiency test	Expected Start (quarter/2016)	Return of the results	Participation fee
1601-1a	<input type="checkbox"/>	Hardness testing Brinell HBW 2,5/187,5	II/2016	1 week	1601-1a or 1601-1b: total 330 €* 1601-1a and 1601-1b: total 490 €*
1601-1b	<input type="checkbox"/>	Hardness testing Brinell HBW 10/3000	II/2016	1 week	
1601-2	<input type="checkbox"/>	Hardness testing Rockwell C	II/2016	1 week	330 €*
1602	<input type="checkbox"/>	Testing of fasteners	III/2016	4 weeks	320 €*
1603a	<input type="checkbox"/>	Emission spectrometry low alloyed steel	II/2016	4 weeks	1 alloy: total 310 €* 2 alloys: total 550 €*
1603b	<input type="checkbox"/>	Emission spectrometry high alloyed steel	II/2016	4 weeks	
1604a	<input type="checkbox"/>	Emission spectrometry Aluminium-alloy	II/2016	4 weeks	1 alloy: total 310 €* 2 alloys: total 550 €* 3 alloys: total 750 €*
1604b	<input type="checkbox"/>	Emission spectrometry Nickel-based alloy	II/2016	4 weeks	
1604c	<input type="checkbox"/>	Emission spectrometry Titan-alloy	II/2016	4 weeks	
1605	<input type="checkbox"/>	Resistance against intergranular attack	II/2016	4 weeks	310 €*
1606	<input type="checkbox"/>	Indirect verification of salt spray test chamber	II/2016	4 weeks	275 €*
1607	<input type="checkbox"/>	Tensile test aluminium, round bars	III/2016	4 weeks	370 €*
1608a	<input type="checkbox"/>	UT, ultrasonic testing	III/2016	1 week	1 method: total 350 €* 2 methods: total 620 €*
1608b	<input type="checkbox"/>	VT, visual testing	III/2016	1 week	
1609	<input type="checkbox"/>	Tensile test steel round bars	III/2016	4 weeks	450 €*
1610	<input type="checkbox"/>	Tensile test steel flat specimens	II/2016	4 weeks	330 €*
1611a	<input type="checkbox"/>	Charpy impact test low level	III/2016	4 weeks	1 level: total 310 €* 2 levels: total 490 €* 3 levels: total 630 €* 4 levels: total 760 €*
1611b	<input type="checkbox"/>	Charpy impact test average level			
1611c	<input type="checkbox"/>	Charpy impact test high level			
1611d	<input type="checkbox"/>	Charpy impact test super high level			
1612	<input type="checkbox"/>	Mobile Emission spectrometry and XRF	II/2016	4 weeks	300 €*
1613	<input type="checkbox"/>	Metallography, image analysis	IV/2016	4 weeks	255 €*
1614	<input type="checkbox"/>	Metallography, sample preparation	IV/2016	4 weeks	275 €*
1615	<input type="checkbox"/>	Tensile test steel, aircraft quality	III/2016	4 weeks	450 €*
1616	<input type="checkbox"/>	Tensile test nickel-based alloy, aircraft quality	II/2016	4 weeks	450 €*
1617	<input type="checkbox"/>	Tensile test titan alloy, aircraft quality	II/2016	4 weeks	450 €*
1618	<input type="checkbox"/>	Izod test, steel	III/2016	4 weeks	350 €*
1619	<input type="checkbox"/>	Stress rupture test, nickel-based alloy	IV/2016	4 weeks	450 €*
1620	<input type="checkbox"/>	Length measurement	IV/2016	1 week	350 €*

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

Continuation on the next page.
Please submit pages 6 and 7 for a binding order.

Registration proficiency tests metal 2016: part 2

No.	please mark	Proficiency test	Expected Start (quarter 2016)	Return of the results	Participation fee
1621	<input type="checkbox"/>	Hardenability test by end quenching	III/2016	4 weeks	310 € *
1622	<input type="checkbox"/>	Replica technique	III/2016	4 weeks	330 € *
1623	<input type="checkbox"/>	Tensile test steel for the reinforcement	III/2016	4 weeks	310 € *
1624	<input type="checkbox"/>	Determination of purity	IV/2016	4 weeks	295 € *
1625	<input type="checkbox"/>	Surface roughness	III/2016	4 weeks	280 € *
1626	<input type="checkbox"/>	Alternating climate test	III/2016	4 weeks	275 € *

* 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 (only if differing):		Delivery address (only 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).			

Please submit pages 6 and 7 for a binding order.