Institut für Eignungsprüfung GmbH • Daimlerstraße 8 • D-45770 Marl

DAkkS Deutsche Akkreditierungsstelle D-EP-11183-01-00

Information sheet
Proficiency tests metal 2018

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. **Usually 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. 1801-1 Hardness testing Brinell	Test standard:	ISO 6506, part 1, HBW 2,5/187,5
	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:	Germany 330 €; other countries + transport costs* estimated start: II. quarter 2018

No. 1801-2 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 set 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 2018

No. 1801-3 Hardness testing Vickers	Test standard:	ISO 6507, part 1, HV 1, HV 10/HV 30
	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:	**HV 1 or HV 10/HV 30:** Germany 330 €; other countries + transport costs* **HV 1 and HV 10/HV 30:** Germany 490 €; other countries + transport costs* estimated start: II. quarter 2018

No. 1802 Mobile hardness testing	Test Standard:	All mobile methods are accepted; Leeb (HLD), UCI, TIV
	Material:	Reference specimens
	Production of specimens:	By the organiser
	Test sequence:	Each reference specimen will be tested by several participants. There will be an arrangement of the dates in advance.
	Results to be submitted:	5 hardness values according to the method used
	Assigned value:	Reference value
	Participation fee:	Germany 380 €; other countries + transport costs* estimated start: III. quarter 2018

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No. 1803 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:	Statement 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 2018

No. 1804 Emission spectrometry (non ferrous-metals)	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no „synthetic alloy“) **Aluminium-alloy**
	Results to be submitted:	Characteristic values according to specifications
	Assigned value:	Consensus value calculated from the results of all the participants
	Additional information:	Statement to measurement uncertainty
	Participation fee:	Germany 310 €; other countries + transport costs* estimated start: II. quarter 2018

No. 1805 Resistance against intergranular attack	Test Standard:	ASTM A262, practice B, Streicher test
	Material:	Stainless steel
	Production of specimens:	By the organiser
	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: III. quarter 2018

No. 1806 Indirect verification of salt spray test chamber	Test standard:	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: III. quarter 2018

No. 1807-1 Tensile test aluminium (round specimens)	Test standard:	ISO 6892-1
	Material:	6 round test specimens, aluminium, d_0 = 6 mm, specimen head: ISO thread M10, and/or 6 material sections, diameter 16 mm, length 110 mm each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	**1807-1M: Machined specimens:** Germany 370 €; other countries + transport costs* **1807-1U: Unmachined specimens:** Germany 290 €; other countries + transport costs* **Machined AND unmachined specimens:** Germany 600 €; other countries + transport costs* estimated start: III. quarter 2018

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No. 1807-2 Tensile test aluminium (flat specimens)	Test standard:	ISO 6892-1
	Material:	6 flat specimens, aluminium, geometry according to ISO 6892-1 (2009), annex B, table B2, a_0 = 1 mm, b_0 = 20 mm, and/or 6 material sections of about 32 x 280 mm² each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	**1807-2M: Machined specimens:** Germany 300 €; other countries + transport costs* **1807-2U: Unmachined specimens:** Germany 255 €; other countries + transport costs* **Machined AND unmachined specimens:** Germany 500 €; other countries + transport costs* estimated start: III. quarter 2018

No. 1808 Non-destructive testing	Test standard:	UT, MT
	Material:	UT: Steel specimens with defined flaws MT: Steel specimens app. 200 x 200 x 10 mm³ with weld seam in the middle, with flaws defined for the test method
	Results to be submitted:	Type / position / size of flaws
	Assigned value:	MT: 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 2018

No. 1809 Tensile test steel (round specimens)	Test standard:	ISO 6892-1
	Material:	Standard samples: 6 round test specimens, steel, d_0 = 10 mm, specimen head: ISO thread M16 as per standard, Alternate samples: specimens with d_0 = 6 mm, specimen head: ISO thread M10, and/or 6 material sections, diameter 26 mm, length 150 mm each.
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	**1809M: Machined specimens:** Germany 450 €; other countries + transport costs* **1809U: Unmachined specimens:** Germany 350 €; other countries + transport costs* **Machined AND unmachined specimens:** Germany 700 €; other countries + transport costs* estimated start: IV. quarter 2018

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No. 1810 Tensile test steel flat specimens, 1 mm	Test standard:	ISO 6892-1 / ISO 10113
	Material:	6 flat specimens, steel, geometry according to ISO 6892-1 (2009), annex B, table B2, a_0 = 1 mm, b_0 = 20 mm, and/or 6 material sections of about 32 x 280 mm² each
	Production of specimens:	by the organiser / by the participants
	Results to be submitted:	Characteristic values according to the test standard, including the R-value, additionally “Young's Module” and the measurement uncertainty
	Assigned Value:	Consensus values calculated from the results of the participants
	Additional information:	Statement to the influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	**1810-1M: Machined specimens:** Germany 330 €; other countries + transport costs* **1810-1U: Unmachined specimens:** Germany 285 €; other countries + transport costs* **Machined AND unmachined specimens:** Germany 550 €; other countries + transport costs* estimated start: IV. quarter 2018

No. 1811 Charpy impact test ready to test specimens	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: IV. quarter 2018

No. 1811 Charpy impact test unmachined specimens	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 participants**
	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 250 €; other countries + transport costs* **Two energy levels:** Germany 400 €; other countries + transport costs* **Three energy levels:** Germany 525 €; other countries + transport costs* **Four energy levels:** Germany 660 €; other countries + transport costs* estimated start: IV. quarter 2018

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No. 1813 Metallography, image analysis	Test standard:	e.g. ISO 643, ASTM E 112 appointment also possible via digital image processing
	Material:	Micrograph; in part simulated, in digital form
	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 2018

No. 1814 Metallography, sample preparation	Test standard:	e.g. 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 2018

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IfEP Institut für Eignungsprüfung

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Registration proficiency tests metal 2018: 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/2018)	Return of the results	Participation fee
1801-1	☐	Hardness testing Brinell HBW 2,5/187,5	II/2018	1 week	330 € *
1801-2	☐	Hardness testing Rockwell C	II/2018	1 week	330 € *
1801-3a	☐	Hardness testing Vickers HV 1	II/2018	1 week	1801-3a **or** 1801-3b: total 330 € * 1801-3a **and** 1801-3b: total 490 € *
1801-3b	☐	Hardness testing Vickers HV 10/HV 30	II/2018	1 week	
1802	☐	Mobile hardness testing	III/2018	1 Week	380 €
1803a	☐	Emission spectrometry low alloyed steel	II/2018	4 weeks	1 alloy: total 310 € * 2 alloys: total 550 € *
1803b	☐	Emission spectrometry high alloyed steel	II/2018	4 weeks	
1804	☐	Emission spectrometry Aluminium-alloy	II/2018	4 weeks	310 € *
1805	☐	Resistance to intergranular corrosion	III/2018	4 weeks	310 € *
1806	☐	Indirect verification of salt spray test chamber	III/2018	4 weeks	275 € *
1807-1M	☐	Tensile test aluminium, round specimens **machined specimens**	III/2018	4 weeks	1807-1M: 370 € * 1807-1U: 290 € * 1807-1M **and** 1807-1U: total 600 € *
1807-1U	☐	Tensile test aluminium, round specimens **unmachined specimens**	III/2018	4 weeks	
1807-2M	☐	Tensile test aluminium, flat specimens **machined specimens**	III/2018	4 weeks	1807-2M: 300 € * 1807-2U: 255 € * 1807-2M **and** 1807-2U: total 500 € *
1807-2U	☐	Tensile test aluminium, flat specimens **unmachined specimens**	III/2018	4 weeks	
1808a	☐	UT, ultrasonic testing	III/2018	1 week	1 method: total 350 € * 2 methods: total 620 € *
1808b	☐	MT, magnetic particle testing	III/2018	1 week	
1809M	Standard samples: ☐ Alternate samples: ☐	Tensile test steel round specimens **machined specimens**	IV/2018	4 weeks	1809M: 450 € * 1809U: 350 € * 1809M **and** 1809U: total 700 € *
1809U	☐	Tensile test steel round specimens **unmachined specimens**	IV/2018	4 weeks	
1810M	☐	Tensile test steel flat specimens, 1 mm **machined specimens**	IV/2018	4 weeks	1810-1M: 330 € * 1810-1U: 285 € * 1810-1M **and** 1810-1U: total 550 € *
1810U	☐	Tensile test steel flat specimens, 1 mm **unmachined specimens**	IV/2018	4 weeks	
1811aM	☐	Charpy impact test low level **machined specimens**	IV/2018	4 weeks	1 level: total 310 € * 2 levels: total 490 € * 3 levels: total 630 € * 4 levels: total 760 € *
1811bM	☐	Charpy impact test average level **machined specimens**			
1811cM	☐	Charpy impact test high level **machined specimens**			
1811dM	☐	Charpy impact test super high level **machined specimens**			
1811aU	☐	Charpy impact test low level **unmachined specimens**	IV/2018	4 weeks	1 level: total 250 € * 2 levels: total 400 € * 3 levels: total 525 € * 4 levels: total 660 € *
1811bU	☐	Charpy impact test average level **unmachined specimens**			
1811cU	☐	Charpy impact test high level **unmachined specimens**			
1811dU	☐	Charpy impact test super high level **unmachined specimens**			

* 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.

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Registration proficiency tests metal 2018: part 2

No.	please mark	Proficiency test	Expected Start (quarter 2018)	Return of the results	Participation fee
1813	☐	Metallography, image analysis	IV/2018	4 weeks	255 € *
1814	☐	Metallography, sample preparation	IV/2018	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 will be invoiced by Institut für Eignungsprüfung IfEP GmbH **in advance**.
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: ☐ Ms. ☐ Mr.			
Address:			
ZIP Code:	City:	Country:	☐ German ☐ English
Telephone:	Fax:	E-Mail:	

<u>Necessary additional information</u>: Your VAT 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.