

Information sheet

Proficiency tests metal 2019

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. 1901-HB Hardness testing Brinell	Test standard:	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 participant receives a reference specimen.
	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 € (245 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2019

No. 1901-HR 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 participant receives three reference specimens.
	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: III. quarter 2019

No. 1901-HV 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 participant receives a reference specimen.
	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 € (245 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2019

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No. 1903 Emission spectrometry steel	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no „synthetic alloy“) a) low alloyed steel b) unalloyed 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 € (275 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2019
No. 1904 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 2019
No. 1905 Resistance against intergranular attack	Test Standard:	ISO 3651, part 1
	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: II. quarter 2019
No. 1906 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: II. quarter 2019
No. 1907-RAI 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:	1907-RAIM: Machined specimens: Germany 370 € other countries + transport costs* 1907-RAIU: Unmachined specimens: Germany 290 € other countries + transport costs* Machined AND unmachined specimens: Germany 600 € (300 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2019

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No. 1907-FAI Tensile test aluminium (flat specimens)	Test standard:	ISO 6892-1
	Material:	6 flat specimens, aluminium, geometry according to ISO 6892-1 (2017), annex B, table B1, $a_0 = 1$ mm, $b_0 = 20$ mm, and/or 6 material sections of about 32 x 280 mm ² 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:	1907-FAIM: Machined specimens: Germany 300 € other countries + transport costs* 1907-FAIU: Unmachined specimens: Germany 255 € other countries + transport costs* Machined AND unmachined specimens: Germany 500 € (250 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2019
No. 1908 Non-destructive testing	Test standard:	RT, PT, ET
	Material:	RT + PT: Steel specimens app. 200 x 200 x 10 mm ³ with weld seam in the middle, with flaws defined for the test method ET: Cylindrical steel specimen with flaws defined for the test method
	Results to be submitted:	Type / position / size of flaws
	Assigned value:	RT: Sample solution of Fraunhofer IZFP Saarbrücken, Germany PT: Sample solution of Fraunhofer IZFP Saarbrücken, Germany ET: 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 € (310 €/proficiency test); other countries + transport costs* Three methods: Germany 840 € (280 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2019
No. 1909-R 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 25 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:	1909-RM: Machined specimens: Germany 450 € other countries + transport costs* 1909-RU: Unmachined specimens: Germany 350 € other countries + transport costs* Machined AND unmachined specimens: Germany 700 € (350 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2019

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No. 1909-RW Tensile test of round bar steel at elevated temperature	Test standard:	ISO 6892-2
	Material:	heat-resistant steel, testing at 200 °C 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, dimensions 20 x 20 mm ² , length 150 mm each.
	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 (not evaluated)
	Assigned value:	Consensus values calculated from the results of the participants
	Additional information:	Statement to the measurement uncertainty of the test method
	Participation fee:	1909-RWM: Machined specimens: Germany 450 € other countries + transport costs* 1909-RWU: Unmachined specimens: Germany 350 € other countries + transport costs* Machined AND unmachined specimens: Germany 700 € (350 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2019

No. 1910F Tensile test steel flat specimens, 1 mm	Test standard:	ISO 6892-1
	Material:	6 flat specimens, steel, geometry according to ISO 6892-1 (2017), annex B, table B1, $a_0 = 1$ mm, $b_0 = 20$ mm, and/or 6 material sections of about 32 x 280 mm ² 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:	1910FM: Machined specimens: Germany 330 € other countries + transport costs* 1910FU: Unmachined specimens: Germany 285 € other countries + transport costs* Machined AND unmachined specimens: Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2019

No. 1911 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:	Consensus 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 € (245 €/proficiency test); other countries + transport costs* Three energy levels: Germany 630 € (210 €/proficiency test); other countries + transport costs* Four energy levels: Germany 760 € (190 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2019

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No. 1911 Charpy impact test unmachined specimens	Test standard:	ISO 148-1 / ISO 148-2 (2 mm striker)
	Material:	Material sections, app. dimensions: 57 x 12 x 12 mm ³ , 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:	Consensus 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 € (200 €/proficiency test); other countries + transport costs* Three energy levels: Germany 525 € (175 €/proficiency test); other countries + transport costs* Four energy levels: Germany 660 € (165 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2019
No. 1913 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: III. quarter 2019
No. 1914 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: III. quarter 2019
No. 1915 Coordinate measuring technology (CMM): tactile and optical	Test Standard:	In-house procedure
	Material:	Reference specimen
	Production of specimen:	by the organiser
	Test sequence:	The reference specimen 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:	Reference value
	Additional information:	Measurement uncertainty
	Participation fee:	Germany 550 €; other countries + transport costs* estimated start: III. quarter 2019

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

Registration proficiency tests metal 2019: 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/2019)	Return of the results	Participation fee
1901-HB-a	<input type="checkbox"/>	Hardness testing Brinell HBW 2,5/187,5	III/2019	1 week	1901-HB-a or 1901-HB-b: total 330 €* 1901-HB-a and 1901-HB-b: total 490 €*
1901-HB-b	<input type="checkbox"/>	Hardness testing Brinell HBW 10/3000	III/2019	1 week	
1901-HR	<input type="checkbox"/>	Hardness testing Rockwell C	III/2019	1 week	330 €*
1901-HV-a	<input type="checkbox"/>	Hardness testing Vickers HV 1	III/2019	1 week	1901-HV-a or 1901-HV-b: total 330 €* 1901-HV-a and 1901-HV-b: total 490 €*
1901-HV-b	<input type="checkbox"/>	Hardness testing Vickers HV 10/HV 30	III/2019	1 week	
1903a	<input type="checkbox"/>	Emission spectrometry low alloyed steel	II/2019	4 weeks	1 alloy: total 310 €*
1903b	<input type="checkbox"/>	Emission spectrometry unalloyed steel	II/2019	4 weeks	2 alloys: total 550 €*
1904	<input type="checkbox"/>	Emission spectrometry Aluminium-alloy	II/2019	4 weeks	310 €*
1905	<input type="checkbox"/>	Resistance to intergranular corrosion	II/2019	4 weeks	310 €*
1906	<input type="checkbox"/>	Indirect verification of salt spray test chamber	II/2019	4 weeks	275 €*
1907-RAIM	<input type="checkbox"/>	Tensile test aluminium, round specimens machined specimens	III/2019	4 weeks	1907-RAIM: 370 €* 1907-RAIU: 290 €* 1907-RAIM and 1907-RAIU: total 600 €*
1907-RAIU	<input type="checkbox"/>	Tensile test aluminium, round specimens unmachined specimens	III/2019	4 weeks	
1907-FAIM	<input type="checkbox"/>	Tensile test aluminium, flat specimens machined specimens	III/2019	4 weeks	1907-FAIM: 300 €* 1907-FAIU: 255 €* 1907-FAIM and 1907-FAIU: total 500 €*
1907-FAIU	<input type="checkbox"/>	Tensile test aluminium, flat specimens unmachined specimens	III/2019	4 weeks	
1908a	<input type="checkbox"/>	RT, radiographic testing	III/2019	1 week	1 method: total 350 €*
1908b	<input type="checkbox"/>	PT, penetrant testing	III/2019	1 week	2 methods: total 620 €*
1908c	<input type="checkbox"/>	ET, eddy current testing	III/2019	1 week	
1909-RM	Standard samples: <input type="checkbox"/> Alternate samples: <input type="checkbox"/>	Tensile test steel round specimens machined specimens	IV/2019	4 weeks	1909-RM: 450 €* 1909-RU: 350 €* 1909-RM and 1909-RU: total 700 €*
1909-RU	<input type="checkbox"/>	Tensile test steel round specimens unmachined specimens	IV/2019	4 weeks	
1909-RWM	Standard samples: <input type="checkbox"/> Alternate samples: <input type="checkbox"/>	Tensile test steel (round) at elevated temperature machined specimens	IV/2019	4 weeks	1909-RWM: 450 €* 1909-RWU: 350 €* 1909-RWM and 1909-RWU: total 700 €*
1909-RWU	<input type="checkbox"/>	Tensile test steel (round) at elevated temperature unmachined specimens	IV/2019	4 weeks	
1910FM	<input type="checkbox"/>	Tensile test steel flat specimens, 1 mm machined specimens	IV/2019	4 weeks	1910FM: 330 €* 1910FU: 285 €* 1910FM and 1910FU: total 550 €*
1910FU	<input type="checkbox"/>	Tensile test steel flat specimens, 1 mm unmachined specimens	IV/2019	4 weeks	

* 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 2019: part 2

No.	please mark	Proficiency test	Expected Start (quarter/2019)	Return of the results	Participation fee
1911-LM	<input type="checkbox"/>	Charpy impact test low level machined specimens	IV/2019	4 weeks	1 level: total 310 €* 2 levels: total 490 €* 3 levels: total 630 €* 4 levels: total 760 €* 1 level: total 250 €* 2 levels: total 400 €* 3 levels: total 525 €* 4 levels: total 660 €*
1911-MM	<input type="checkbox"/>	Charpy impact test average level machined specimens			
1911-HM	<input type="checkbox"/>	Charpy impact test high level machined specimens			
1911-SM	<input type="checkbox"/>	Charpy impact test super high level machined specimens			
1911-LU	<input type="checkbox"/>	Charpy impact test low level unmachined specimens	IV/2019	4 weeks	1 level: total 250 €* 2 levels: total 400 €* 3 levels: total 525 €* 4 levels: total 660 €*
1911-MU	<input type="checkbox"/>	Charpy impact test average level unmachined specimens			
1911-HU	<input type="checkbox"/>	Charpy impact test high level unmachined specimens			
1911-SU	<input type="checkbox"/>	Charpy impact test super high level unmachined specimens			
1913	<input type="checkbox"/>	Metallography, image analysis	III/2019	4 weeks	255 €* 275 €* 550 €*
1914	<input type="checkbox"/>	Metallography, sample preparation	III/2019	4 weeks	
1915	<input type="checkbox"/>	Coordinate measuring technology (CMM): tactile and optical	III/2019	1 week	

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The costs will be invoiced by Institut für Eignungsprüfung IfEP GmbH **in advance**. The total invoice amount is to be paid two weeks after receipt of the invoice, independent of the shipment of the specimens.

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.	First name:	Surname:		
Address:					
ZIP Code:	City:	Country:	<input type="checkbox"/> German <input type="checkbox"/> 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.