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

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

Information sheet
Proficiency tests metal 2021

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. 2101-HB Hardness testing Brinell	Test standard:	ISO 6506, part 1, HBW 2,5/187,5 and/or HBW 10/3000
	Material:	Reference hardness block
	Test program:	five hardness measurements on reference hardness block
	Test sequence:	Each participant receives a reference specimen.
	Results to be submitted:	five hardness values of the hardness 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 2021

No. 2101-HR Hardness testing Rockwell C	Test standard:	ISO 6508, part 1, HRC
	Material:	Reference hardness block
	Test program:	3 x five hardness measurements on reference hardness blocks
	Test sequence:	Each participant receives three reference specimens.
	Results to be submitted:	3 x five hardness values of the hardness 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 2021

No. 2101-HV Hardness testing Vickers	Test standard:	ISO 6507, part 1, HV 1 and/or HV 10/HV 30
	Material:	Reference hardness block
	Test program:	five hardness measurements on reference hardness block
	Test sequence:	Each participant receives a reference specimen.
	Results to be submitted:	five hardness values of the hardness 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 2021

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No. 2103 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 2021

No. 2104 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 2021

No. 2105 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: II. quarter 2021

No. 2106 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 2021

No. 2107-RAI Tensile test aluminium (round specimens)	Test standard:	ISO 6892-1
	Material:	Standard samples: 6 round test specimens, aluminium, 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 app. 20 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:	**2107-RAIM: Machined specimens:** Germany 370 €; other countries + transport costs* **2107-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 2021

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No. 2107-FAl Tensile test aluminium (flat specimens)	Test standard:	ISO 6892-1
	Material:	6 flat specimens, aluminium, geometry according to ISO 6892-1, annex B, table B1, a_0 = 1-3 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:	**2107-FAlM: Machined specimens:** Germany 300 €; other countries + transport costs* **2107-FAlU: 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 2021

No. 2108 Non-destructive testing	Test standard:	UT (weld), RT, MT
	Material:	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:	Sample solution in agreement with 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 2021

No. 2109-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 app. 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:	**2109-RM: Machined specimens:** Germany 450 €; other countries + transport costs* **2109-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 2021

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No. 2109-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 mm², 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:	**2109-RWM: Machined specimens:** Germany 450 €; other countries + transport costs* **2109-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 2021

No. 2110F Tensile test steel flat specimens, 1-3 mm	Test standard:	ISO 6892-1
	Material:	6 flat specimens, steel, geometry according to ISO 6892-1, annex B, table B1, a_0 = 1-3 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:	**2110FM: Machined specimens:** Germany 330 €; other countries + transport costs* **2110FU: 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 2021

No. 2111 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 2021

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No. 2111 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 mm³, 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 2021

No. 2113 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 2021

No. 2114-a Metallography, sample preparation	Test standard:	e. g. ISO 643, ASTM E 112
	Material:	Metallic sample 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 2021

No. 2114-b Metallography, depth of decarburization	Test standard:	ISO 3887
	Material:	Metallic sample for analysis
	Results to be submitted:	Acc. to standard
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start: III. quarter 2021

Nr. 2140-HS Vitreous and porcelain enamels - High voltage test	Test standard:	ISO 2746
	Material:	Vitreous steel sheet
	Production of specimens:	By the organiser
	Test procedure:	Every specimen is tested by several participants. The arrangement of testing dates is done via e-mail.
	Results to be submitted:	according to standard
	Assigned Value:	Determined by the orgainser
	Participation fee:	**2140-HS:** Germany 310 €; other countries + transport costs* **2140-HS and 2141-SD:** Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2021

Nr. 2141-SD Measurement of coating thickness - Magnetic method	Test standard:	ISO 2178
	Material:	Vitreous steel sheet, coating thickness app. 1-2 mm.
	Production of specimens:	By the organiser
	Test procedure:	Every specimen is tested by several participants. The arrangement of testing dates is done via e-mail.
	Results to be submitted:	Values according to ISO 28721-1
	Assigned Value:	Determined by the orgainser
	Participation fee:	**2141-SD:** Germany 310 €; other countries + transport costs* **2141-SD and 2140-HS:** Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2021

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Registration proficiency tests metal 2021: part 1

via fax to: +49 (0) 2365 / 209 00 35 or via e-mail to: Mende@ifep.de

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

No.	please mark	Proficiency test	Expected Start (quarter/2021)	Return of the results	Participation fee
2101-HB-a	☐	Hardness testing Brinell HBW 2,5/187,5	III/2021	4 weeks	2101-HB-a **or** 2101-HB-b: total 330 € * 2101-HB-a **and** 2101-HB-b: total 490 € *
2101-HB-b	☐	Hardness testing Brinell HBW 10/3000	III/2021	4 weeks	
2101-HR	☐	Hardness testing Rockwell C	III/2021	4 weeks	330 € *
2101-HV-a	☐	Hardness testing Vickers HV 1	III/2021	4 weeks	2101-HV-a **or** 2101-HV-b: total 330 € * 2101-HV-a **and** 2101-HV-b: total 490 € *
2101-HV-b	☐	Hardness testing Vickers HV 10/HV 30	III/2021	4 weeks	
2103a	☐	Emission spectrometry low alloyed steel	II/2021	4 weeks	1 alloy: total 310 € * 2 alloys: total 550 € *
2103b	☐	Emission spectrometry unalloyed steel	II/2021	4 weeks	
2104	☐	Emission spectrometry Aluminium-alloy	II/2021	4 weeks	310 € *
2105	☐	Resistance to intergranular corrosion	II/2021	4 weeks	310 € *
2106	☐	Indirect verification of salt spray test chamber	II/2021	4 weeks	275 € *
2107-RAIM	Standard samples: ☐ Alternate samples: ☐	Tensile test aluminium, round specimens **machined specimens**	III/2021	4 weeks	2107-RAIM: 370 € * 2107-RAIU: 290 € * 2107-RAIM **and** 2107-RAIU: total 600 € *
2107-RAIU	☐	Tensile test aluminium, round specimens **unmachined specimens**	III/2021	4 weeks	
2107-FAIM	☐	Tensile test aluminium, flat specimens **machined specimens**	III/2021	4 weeks	2107-FAIM: 300 € * 2107-FAIU: 255 € * 2107-FAIM **and** 2107-FAIU: total 500 € *
2107-FAIU	☐	Tensile test aluminium, flat specimens **unmachined specimens**	III/2021	4 weeks	
2108a	☐	UT, ultrasonic testing (weld)	III/2021	1 week	1 method: total 350 € * 2 methods: total 620 € * 3 methods total 840 € *
2108b	☐	RT, radiographic testing	III/2021	1 week	
2108c	☐	MT, magnetic particle testing	III/2021	1 week	
2109-RM	Standard samples: ☐ Alternate samples: ☐	Tensile test steel round specimens **machined specimens**	IV/2021	4 weeks	2109-RM: 450 € * 2109-RU: 350 € * 2109-RM **and** 2109-RU: total 700 € *
2109-RU	☐	Tensile test steel round specimens **unmachined specimens**	IV/2021	4 weeks	
2109-RWM	Standard samples: ☐ Alternate samples: ☐	Tensile test steel (round) at elevated temperature **machined specimens**	IV/2021	4 weeks	2109-RWM: 450 € * 2109-RWU: 350 € * 2109-RWM **and** 2109-RWU: total 700 € *
2109-RWU	☐	Tensile test steel (round) at elevated temperature **unmachined specimens**	IV/2021	4 weeks	
2110FM	☐	Tensile test steel flat specimens, 1-3 mm **machined specimens**	IV/2021	4 weeks	2110FM: 330 € * 2110FU: 285 € * 2110FM **and** 2110FU: total 550 € *
2110FU	☐	Tensile test steel flat specimens, 1-3 mm **unmachined specimens**	IV/2021	4 weeks	
2111-LM	☐	Charpy impact test low level **machined specimens**	IV/2021	4 weeks	1 level: total 310 € * 2 levels: total 490 € * 3 levels: total 630 € * 4 levels: total 760 € *
2111-MM	☐	Charpy impact test average level **machined specimens**			
2111-HM	☐	Charpy impact test high level **machined specimens**			
2111-SM	☐	Charpy impact test super high level **machined 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 2021: part 2

No.	please mark	Proficiency test	Expected Start (quarter/2021)	Return of the results	Participation fee
2111-LU	☐	Charpy impact test low level **unmachined specimens**	IV/2021	4 weeks	1 level: total 250 € * 2 levels: total 400 € * 3 levels: total 525 € * 4 levels: total 660 € *
2111-MU	☐	Charpy impact test average level **unmachined specimens**			
2111-HU	☐	Charpy impact test high level **unmachined specimens**			
2111-SU	☐	Charpy impact test super high level **unmachined specimens**			
2113	☐	Metallography, image analysis	III/2021	4 weeks	255 € *
2114-a	☐	Metallography, sample preparation	III/2021	4 weeks	275 € *
2114-b	☐	Metallography, depth of decarburization	III/2021	1 week	275 € *
2140-HS	☐	High voltage test ISO 2746	III/2021	1 week	2140-HS **or** 2141-SD: total 310 € * 2140-HS **and** 2141-SD: total 550 € *
2141-SD	☐	Coating thickness ISO 2178	III/2021	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:				
Department:				
Contact person:	☐ Ms. ☐ Mr.	First name:	Surname:	
Address:				_____ Date / signature /**stamp**
ZIP Code:	City:		Country:	☐ German ☐ English
Telephone:		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.