

Information sheet

Proficiency tests metal 2025

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. 2501-HB Hardness testing Brinell	Test standard:	ISO 6506, part 1, HBW 2,5/187,5 and/or HBW 10/3000
	Material:	steel specimen to be prepared by the laboratory
	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 block
	Assigned value:	Consensus value calculated from the results of all participants
	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 € (255 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2025

No. 2501-HR Hardness testing Rockwell C	Test standard:	ISO 6508, part 1, HRC
	Material:	steel specimens to be prepared by the laboratory
	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:	Consensus value calculated from the results of all participants
	Participation fee:	Germany 370 € other countries + transport costs* estimated start: III. quarter 2025

No. 2501-HV Hardness testing Vickers	Test standard:	ISO 6507, part 1, HV 1 and/or HV 10/HV 30
	Material:	steel specimen to be prepared by the laboratory
	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 block
	Assigned value:	Consensus value calculated from the results of all participants
	Participation fee:	One method: Germany 330 € other countries + transport costs* Two methods: Germany 490 € (255 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2025

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No. 2503 Emission spectrometry steel	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2503L: low alloyed steel 2503U: 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 2025
No. 2504 Emission spectrometry (non ferrous-metals)	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2504Al: Aluminium-alloy 2504CuZn: Brass-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:	one alloy: Germany 310 € other countries + transport costs* two alloys: Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2025
No. 2505 Resistance against intergranular attack	Test standard:	ISO 3651, part 1, Huey 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 the participants
	Participation fee:	Germany 310 € other countries + transport costs* estimated start: III. quarter 2025
No. 2506 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 2025

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No. 2507-RAI Tensile test aluminium (round specimens)	Test standard:	ISO 6892-1
	Material:	Standard samples: 6 round test specimens, aluminium, $d_0 = 6$ mm, specimen head: ISO thread M10 as per standard; and/or 6 material sections, diameter app. 12 mm, length 100 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, measurement uncertainty of the test method
	Participation fee:	2507-RAIM: Machined specimens: Germany 370 € other countries + transport costs* 2507-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 2025
No. 2507-FAI 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 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, measurement uncertainty of the test method
	Participation fee:	2507-FAIM: Machined specimens: Germany 300 € other countries + transport costs* 2507-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 2025
No. 2508 Non-destructive testing	Test standard:	UT (Wall thickness and flaws), VT, UT-phased arrays
	Material:	UT -phased arrays, VT: Steel specimens app. 200 x 200 x 10 mm ³ with weld seam in the middle, with flaws defined for the test method UT (Wall thickness and flaws): steel specimen app. 150 x 150 mm ² with defined inserted reflectors
	Results to be submitted:	Type / position / size of flaws, wall thickness
	Assigned value:	Consensus value, UT wall thickness: direct measurement, reflectors: 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 660 € (330 €/proficiency test); other countries + transport costs* Three methods: Germany 930 € (310 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2025

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No. 2509-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:	2509-RM: Machined specimens: Germany 450 € other countries + transport costs* 2509-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 2025
No. 2509-BST Tensile test steel for the reinforcement	Test standard:	ISO 15630-1, ISO 6892-1
	Material:	6 reinforcing bars, diameter: 12 mm, length: 1.000 mm
	Production of specimens:	by the participants (if required)
	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
	Participation fee:	Germany 310 € other countries + transport costs* estimated start: III. quarter 2025
No. 2509-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 / 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:	2509-RWM: Machined specimens: Germany 450 € other countries + transport costs* 2509-RWU: Unmachined specimens: Germany 350 € other countries + transport costs* Machined AND unmachined specimens: Germany 700 € (350 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2025
No. 2510F 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 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:	2510FM: Machined specimens: Germany 330 € other countries + transport costs* 2510FU: 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 2025

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No. 2511 Charpy impact test machined 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 and -25°C), 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 € (255 €/proficiency test); other countries + transport costs* Three energy levels: Germany 660 € (220 €/proficiency test); other countries + transport costs* Four energy levels: Germany 800 € (200 €/proficiency test); other countries + transport costs* Five energy levels: Germany 950 € (190 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2025
No. 2511 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 and -25°C), 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 460 € (230 €/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* Five energy levels: Germany 850 € (170 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2025
No. 2513 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 275 €; other countries + transport costs* estimated start: III. quarter 2025
No. 2513-MA Metallography, MACRO analysis	Test standard:	e. g. ISO 17639, ASTM E 381, ASTM E 340 appointment also possible via digital image processing
	Material:	Micrograph; picture of welds
	Results to be submitted:	e.g. structure steel / defects of weld
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start: III. quarter 2025

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No. 2513-NMI Metallography, non-metallic inclusions	Test standard:	e. g. ISO 4967, ASTM E 45a
	Material:	Micrograph
	Results to be submitted:	Microscopic analysis: size, distribution, number of inclusions
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €, other countries + transport costs* estimated start: III. quarter 2025
No. 2514 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 300 €, other countries + transport costs* estimated start: III. quarter 2025
No. 2515 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 ,
	Assigned Value:	Consensus value
	Participation fee:	Germany 330 € other countries + transport costs* estimated start: III. quarter 2025
Nr. 2520 Length measurement	Test standard:	In house
	Material:	Tensile (round) specimen, Charpy specimen
	Production of specimens:	by the organiser
	Results to be submitted:	Round specimen: minimal thickness, Charpy specimen: Width, Notch angle, Notch depth
	Assigned Value:	reference values
	Participation fee:	Germany 350 € other countries + transport costs* estimated start: III. quarter 2025
Nr. 2530 CTOD test ISO 12135	Test standard:	ISO 12135 Test at 0° Celsius
	Material:	1.6565 3 material sections á 20 x 35 x 150 mm ³
	Production of specimens:	By the participants Machining of SENB-specimens (W = 2 x B) Target specimen size: 15 x 30 x 138 mm ³
	Results to be submitted:	CTOD in mm
	Assigned Value:	Consensus values calculated from the results of the participants
	Participation fee:	Germany 370 €, other countries + transport costs* estimated start: III. quarter 2025
No. 2541-SD Measurement of coating thickness Magnetic method	Test standard:	ISO 2178
	Material:	painted steel sheet, coating thickness app. 250 µm
	Production of specimens:	By the organiser
	Results to be submitted:	Coating thickness
	Assigned Value:	Consensus value
	Participation fee:	Germany 300 €, other countries + transport costs* estimated start: III. quarter 2025

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

Registration proficiency tests metal 2025: part 1
via e-mail to: Mende@ifep.de

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

No.	please mark	Proficiency test	Expected Start (quarter/2025)	Return of the results	Participation fee
2501-HB-a	<input type="checkbox"/>	Hardness testing Brinell HBW 2,5/187,5	III/2025	4 weeks	2501-HB-a or 2501-HB-b: total 330 €* 2501-HB-a and 2501-HB-b: total 490 €*
2501-HB-b	<input type="checkbox"/>	Hardness testing Brinell HBW 10/3000	III/2025	4 weeks	
2501-HR	<input type="checkbox"/>	Hardness testing Rockwell C	III/2025	4 weeks	370 €*
2501-HV-a	<input type="checkbox"/>	Hardness testing Vickers HV 1	III/2025	4 weeks	1 method: total 330 €*
2501-HV-b	<input type="checkbox"/>	Hardness testing Vickers HV 10/HV 30	III/2025	4 weeks	2 methods: total 490 €*
2503L	<input type="checkbox"/>	Emission spectrometry low alloyed steel	II/2025	4 weeks	1 alloy: total 310 €*
2503U	<input type="checkbox"/>	Emission spectrometry unalloyed steel	II/2025	4 weeks	2 alloys: total 550 €*
2504Al	<input type="checkbox"/>	Emission spectrometry Aluminium-alloy	II/2025	4 weeks	1 alloy: total 310 €*
2504CuZn	<input type="checkbox"/>	Emission spectrometry Brass-alloy	II/2025	4 weeks	2 alloys: total 550 €*
2505	<input type="checkbox"/>	Resistance to intergranular corrosion	III/2025	4 weeks	310 €*
2506	<input type="checkbox"/>	Indirect verification of salt spray test chamber	II/2025	4 weeks	275 €*
2507-RAIM	<input type="checkbox"/>	Tensile test aluminium, round specimens machined specimens	III/2025	4 weeks	2507-RAIM: 370 €* 2507-RAIU: 290 €* 2507-RAIM and 2507-RAIU: total 600 €*
2507-RAIU	<input type="checkbox"/>	Tensile test aluminium, round specimens unmachined specimens	III/2025	4 weeks	
2507-FAIM	<input type="checkbox"/>	Tensile test aluminium, flat specimens machined specimens	III/2025	4 weeks	2507-FAIM: 300 €* 2507-FAIU: 255 €* 2507-FAIM and 2507-FAIU: total 500 €*
2507-FAIU	<input type="checkbox"/>	Tensile test aluminium, flat specimens unmachined specimens	III/2025	4 weeks	
2508-UT	<input type="checkbox"/>	UT- wall thickness and flaws	II/2025	1 week	1 method: total 350 €*
2508-VT	<input type="checkbox"/>	VT	II/2025	1 week	2 methods: total 660 €*
2508-UT-PA	<input type="checkbox"/>	UT weld using phased array	II/2025	1 week	3 methods: total 930 €*
2509-RM	Standard samples: <input type="checkbox"/>	Tensile test steel round specimens machined specimens	IV/2025	4 weeks	2509-RM: 450 €* 2509-RU: 350 €* 2509-RM and 2509-RU: total 700 €*
	Alternate samples: <input type="checkbox"/>				
2509-RU	<input type="checkbox"/>	Tensile test steel round specimens unmachined specimens	IV/2025	4 weeks	
2509-BST	<input type="checkbox"/>	Tensile test reinforcement bars	III/2025	4 weeks	310 €*

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

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Please submit pages 7 to 9 for a binding order.

Registration proficiency tests metal 2025: part 2

No.	please mark	Proficiency test	Expected Start (quarter/2025)	Return of the results	Participation fee
2509-RWM	Standard samples: <input type="checkbox"/>	Tensile test steel, 200°C , round specimens machined specimens	II/2025	4 weeks	2509-RWM: 450 €* 2509-RWU: 350 €* 2509-RWM and 2509-RWU: total 700 €*
	Alternate samples: <input type="checkbox"/>				
2509-RWU	<input type="checkbox"/>	Tensile test steel, 200°C , round specimens unmachined specimens	II/2025	4 weeks	
2510FM	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm machined specimens	IV/2025	4 weeks	2510FM: 330 €* 2510FU: 285 €* 2510FM and 2510FU: total 550 €*
2510FU	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm unmachined specimens	IV/2025	4 weeks	
2511-LM	<input type="checkbox"/>	Charpy impact test low level machined specimens	IV/2025	4 weeks	1 level: total 310 €* 2 levels: total 490 €* 3 levels: total 660 €* 4 levels: total 800 €* 5 levels: total 950 €*
2511-MM	<input type="checkbox"/>	Charpy impact test average level machined specimens			
2511-HM -25°C	<input type="checkbox"/>	Charpy impact test high level machined specimens, -25°C			
2511-HM	<input type="checkbox"/>	Charpy impact test high level machined specimens			
2511-SM	<input type="checkbox"/>	Charpy impact test super high level machined specimens			
2511-LU	<input type="checkbox"/>	Charpy impact test low level unmachined specimens	IV/2025	4 weeks	1 level: total 250 €* 2 levels: total 460 €* 3 levels: total 630 €* 4 levels: total 760 €* 5 levels: total 850 €*
2511-MU	<input type="checkbox"/>	Charpy impact test average level unmachined specimens			
2511-HU -25°C	<input type="checkbox"/>	Charpy impact test high level unmachined specimens, -25°C			
2511-HU	<input type="checkbox"/>	Charpy impact test high level unmachined specimens			
2511-SU	<input type="checkbox"/>	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

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Please submit pages 7 to 9 for a binding order.**

Registration proficiency tests metal 2025: part 3

No.	please mark	Proficiency test	Expected Start (quarter/2025)	Return of the results	Participation fee
2513	<input type="checkbox"/>	Metallography, image analysis	III/2025	4 weeks	275 €*
2513-MA	<input type="checkbox"/>	Metallography, macro analysis	III/2025	4 weeks	275 €*
2513-NMI	<input type="checkbox"/>	Metallography, non-metallic inclusions	III/2025	4 weeks	275 €*
2514	<input type="checkbox"/>	Metallography, sample preparation	III/2025	4 weeks	300 €*
2515	<input type="checkbox"/>	Roughness measurement	III/2025	4 weeks	330 €*
2520	<input type="checkbox"/>	Length measurement	III/2025	4 weeks	350 €*
2530	<input type="checkbox"/>	CTOD test	III/2025	4 weeks	370 €*
2541-SD	<input type="checkbox"/>	Coating thickness, Magnetic method	III/2025	4 weeks	300 €*

* 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 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:	<input type="checkbox"/> Ms. <input type="checkbox"/> Mr.		
Address:			Date / signature / stamp
ZIP Code:	City:	Country:	<input type="checkbox"/> German <input type="checkbox"/> English
Telephone:	E-Mail:		
<u>Necessary additional information</u> (your order cannot be processed without this information): 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 7 to 9 for a binding order.