

Information sheet

Proficiency tests metal 2022

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. 2201-HB Hardness testing Brinell	Test standard:	ISO 6506, part 1, HBW 2,5/187,5
	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:	Germany 330 € other countries + transport costs* estimated start: III. quarter 2022

No. 2201-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 330 € other countries + transport costs* estimated start: III. quarter 2022

No. 2201-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:	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 2022

No. 2202 Testing of fasteners	Test standard:	ISO 898-1 and/or ISO 3506-1
	Material:	bolts
	Production of specimens:	complete bolts
	Results to be submitted:	according to standard, 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 2022

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

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No. 2203 Emission spectrometry steel	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2203L: low alloyed steel 2203H: 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 € (275 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2022
No. 2204 Emission spectrometry (non ferrous-metals)	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2204Al: Aluminium-alloy 2204Cu: Copper-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 2022
No. 2205 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 participants
	Participation fee:	Germany 310 € other countries + transport costs* estimated start: III. quarter 2022
No. 2206 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 2022
No. 2207-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, measurement uncertainty of the test method
Participation fee:	2207-RAIM: Machined specimens: Germany 370 € other countries + transport costs* 2207-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 2022	

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No. 2207-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:	2207-FAIM: Machined specimens: Germany 300 € other countries + transport costs* 2207-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 2022
No. 2208 Non-destructive testing	Test standard:	UT (wall thickness and flaws), VT, ET
	Material:	UT: Steel specimens app. 150 x 150 mm ² with defined flaws VT: Steel specimens app. 200 x 200 x 10 mm ³ with weld seam in the middle, with flaws defined for the test method ET: Al-specimens app. 150 x 150 mm ² with defined flaws
	Results to be submitted:	Type / position / size of flaws
	Assigned value:	UT: Wall thickness: direct measurement; number and position of flaws: true value VT: Sample solution of Fraunhofer IZFP Saarbrücken, Germany ET: 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 € (310 €/proficiency test); other countries + transport costs* Three methods: Germany 840 € (280 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2022
No. 2209-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:	2209-RM: Machined specimens: Germany 450 € other countries + transport costs* 2209-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 2022
No. 2209-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
	Additional information:	Measurement uncertainty of test procedure
	Participation fee:	Germany 310 € other countries + transport costs* estimated start: III. quarter 2022

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No. 2209-BT Bend test steel	Test standard:	ISO 7438
	Material:	6 material sections, thickness 6-12 mm
	Production of specimens:	by the participants
	Results to be submitted:	according to the test standard
	Assigned Value:	Consensus, assessment of statements against the standard requirements
	Participation fee:	Germany 310 € other countries + transport costs* estimated start: III. quarter 2022
No. 2210F 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 32×280 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:	2210FM: Machined specimens: Germany 330 € other countries + transport costs* 2210FU: 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 2022
No. 2210FD Tensile test steel flat specimens, 10-15 mm	Test standard:	ISO 6892-1
	Material:	6 flat specimens, steel, geometry according to ISO 6892-1, annex D, table D2, $a_0 = 10-15$ mm, $b_0 = 25$ mm, and/or 6 material sections of about 40×400 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:	2210FDM: Machined specimens: Germany 370 € other countries + transport costs* 2210FDU: Unmachined specimens: Germany 330 € other countries + transport costs* Machined AND unmachined specimens: Germany 620 € (310 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2022
No. 2211 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), 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 2022

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No. 2211 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 2022
No. 2212 Mobile Emission spectrometry and XRF	Test standard:	In-house procedure (no stationary machines, see proficiency tests 2203 and 2204)
	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: III. quarter 2022
No. 2213 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 2022
No. 2214 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 2022
No. 2214-CHD Case Hardening Depth	Test standard:	ISO 2639
	Material:	Steel specimens
	Results to be submitted:	Determination and verification of the depth of carburized and hardened cases, CHD
	Assigned Value:	Consensus value
	Participation fee:	Germany 300 €, other countries + transport costs* estimated start: III. quarter 2022
No. 2214-RG 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 300 €, other countries + transport costs* estimated start: IV. quarter 2022

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No. 2214-JT 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 350 €, other countries + transport costs* estimated start: III. quarter 2022
No. 2214-REP Replica technique	Test standard:	Technical guideline VGB-S-517-00
	Material:	Replica; Micrograph images of heat resistant steel
	Test procedure:	Every participant receives pictures of heat resistant steel for classification
	Results to be submitted:	Statement of evaluation class according to VGB-S-517
	Assigned Value:	Reference value
	Participation fee:	Germany 330 €, other countries + transport costs* estimated start: III. quarter 2022
No. 2215 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:	Consensus value
	Participation fee:	Germany 330 €, other countries + transport costs* estimated start: III. quarter 2022
No. 2220 Length measurement	Test standard:	In house
	Material:	Calibrated specimens from material testing
	Test program:	Measurement of the specimens according to specifications
	Test sequence:	Every participant receives one round specimen and one Charpy specimen
	Results to be submitted:	Round specimen: minimal thickness, Charpy specimen: Width, Notch angle, Notch depth
	Assigned Value:	Reference value
	Additional information:	Information on the measurement uncertainty
	Participation fee:	Germany 350 €, other countries + transport costs* estimated start: IV. quarter 2022
Nr. 2230 CTOD test ISO 12135	Test standard:	ISO 12135 Test at 0° Celsius
	Material:	1.4313 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 500 €, other countries + transport costs* estimated start: III. quarter 2022

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

Registration proficiency tests metal 2022: 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/2022)	Return of the results	Participation fee
2201-HB	<input type="checkbox"/>	Hardness testing Brinell HBW 2,5/187,5	III/2022	4 weeks	330 €*
2201-HR	<input type="checkbox"/>	Hardness testing Rockwell C	III/2022	4 weeks	330 €*
2201-HV-a	<input type="checkbox"/>	Hardness testing Vickers HV 1	III/2022	4 weeks	2201-HV-a or 2201-HV-b: total 330 €* 2201-HV-a and 2201-HV-b: total 490 €*
2201-HV-b	<input type="checkbox"/>	Hardness testing Vickers HV 10/HV 30	III/2022	4 weeks	
2202	<input type="checkbox"/>	Testing of fasteners	III/2022	4 weeks	320 €*
2203L	<input type="checkbox"/>	Emission spectrometry low alloyed steel	II/2022	4 weeks	1 alloy: total 310 €*
2203H	<input type="checkbox"/>	Emission spectrometry high alloyed steel	II/2022	4 weeks	2 alloys: total 550 €*
2204Al	<input type="checkbox"/>	Emission spectrometry Aluminium-alloy	II/2022	4 weeks	1 alloy: total 310 €*
2204Cu	<input type="checkbox"/>	Emission spectrometry Copper-alloy	II/2022	4 weeks	2 alloys: total 550 €*
2205	<input type="checkbox"/>	Resistance to intergranular corrosion	III/2022	4 weeks	310 €*
2206	<input type="checkbox"/>	Indirect verification of salt spray test chamber	II/2022	4 weeks	275 €*
2207-RAIM	Standard samples: <input type="checkbox"/>	Tensile test aluminium, round specimens machined specimens	III/2022	4 weeks	2207-RAIM: 370 €* 2207-RAIU: 290 €* 2207-RAIM and 2207-RAIU: total 600 €*
	Alternate samples: <input type="checkbox"/>				
2207-RAIU	<input type="checkbox"/>	Tensile test aluminium, round specimens unmachined specimens	III/2022	4 weeks	
2207-FAIM	<input type="checkbox"/>	Tensile test aluminium, flat specimens machined specimens	III/2022	4 weeks	2207-FAIM: 300 €* 2207-FAIU: 255 €* 2207-FAIM and 2207-FAIU: total 500 €*
2207-FAIU	<input type="checkbox"/>	Tensile test aluminium, flat specimens unmachined specimens	III/2022	4 weeks	
2208a	<input type="checkbox"/>	UT, ultrasonic testing (wall thickness and flaws)	II/2022	1 week	1 method: total 350 €*
2208b	<input type="checkbox"/>	VT, Visual testing	II/2022	1 week	2 methods: total 620 €*
2208c	<input type="checkbox"/>	ET, Eddy current testing	II/2022	1 week	3 methods total 840 €*
2209-RM	Standard samples: <input type="checkbox"/>	Tensile test steel round specimens machined specimens	IV/2022	4 weeks	2209-RM: 450 €* 2209-RU: 350 €* 2209-RM and 2209-RU: total 700 €*
	Alternate samples: <input type="checkbox"/>				
2209-RU	<input type="checkbox"/>	Tensile test steel round specimens unmachined specimens	IV/2022	4 weeks	
2209-BST	<input type="checkbox"/>	Tensile test steel for the reinforcement	III/2022	4 weeks	310 €*
2209-BT	<input type="checkbox"/>	Bend test steel	III/2022	4 weeks	310 €*
2210FM	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm machined specimens	IV/2022	4 weeks	2210FM: 330 €* 2210FU: 285 €* 2210FM and 2210FU: total 550 €*
2210FU	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm unmachined specimens	IV/2022	4 weeks	
2210FDM	<input type="checkbox"/>	Tensile test steel flat specimens, 10-15 mm machined specimens	IV/2022	4 weeks	2210FDM: 370 €* 2210FDU: 330 €* 2210FDM and 2210FDU: total 620 €*
2210FDU	<input type="checkbox"/>	Tensile test steel flat specimens, 10-15 mm unmachined specimens	IV/2022	4 weeks	
2211-LM	<input type="checkbox"/>	Charpy impact test low level machined specimens	IV/2022	4 weeks	1 level: total 310 €*
2211-MM	<input type="checkbox"/>	Charpy impact test average level machined specimens			2 levels: total 490 €*
2211-HM	<input type="checkbox"/>	Charpy impact test high level machined specimens			3 levels: total 630 €*
2211-SM	<input type="checkbox"/>	Charpy impact test super high level machined specimens			4 levels: total 760 €*

* 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 7 and 8 for a binding order.**

Registration proficiency tests metal 2022: part 2

No.	please mark	Proficiency test	Expected Start (quarter/2022)	Return of the results	Participation fee
2211-LU	<input type="checkbox"/>	Charpy impact test low level unmachined specimens	IV/2022	4 weeks	1 level: total 250 € *
2211-MU	<input type="checkbox"/>	Charpy impact test average level unmachined specimens			2 levels: total 400 € *
2211-HU	<input type="checkbox"/>	Charpy impact test high level unmachined specimens			3 levels: total 525 € *
2211-SU	<input type="checkbox"/>	Charpy impact test super high level unmachined specimens			4 levels: total 660 € *
2212	<input type="checkbox"/>	Mobile Emission spectrometry and XRF	III/2022	4 weeks	300 € *
2213	<input type="checkbox"/>	Metallography, image analysis	III/2022	4 weeks	275 € *
2214	<input type="checkbox"/>	Metallography, sample preparation	III/2022	4 weeks	300 € *
2214-CHD	<input type="checkbox"/>	Case Hardening Depth	III/2022	4 weeks	300 € *
2214-RG	<input type="checkbox"/>	Determination of purity	IV/2022	4 weeks	300 € *
2214-JT	<input type="checkbox"/>	Hardenability test by end quenching	III/2022	4 weeks	350 € *
2214-REP	<input type="checkbox"/>	Replica technique	III/2022	4 weeks	330 € *
2215	<input type="checkbox"/>	Surface roughness	III/2022	4 weeks	330 € *
2220	<input type="checkbox"/>	Length measurement	IV/2022	4 weeks	350 € *
2230	<input type="checkbox"/>	CTOD test	III/2022	4 weeks	500 € *

* 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:			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:		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 7 and 8 for a binding order.