



XXII INTERNATIONAL APPRENTICE COMPETITION

MINUTES OF THE MEETING OF THE TECHNICAL COMMITTEE HELD IN
MADRID ON 13TH SEPTEMBER 1975.

Chairman

Mr. Hamer

Vice-chairman

Mr. Kang

Members

Mr. Nispel (Germany)
Mr. Dressel (Germany)
Mr. Bammer (Austria)
Mr. Vastiau (Belgium)
Mr. Maestu (Spain)
Mr. Lewis (USA)
Mr. Poitevin (France)
Mr. Kholdbarin (Iran)
Mr. Sweeney (Ireland)
Mr. Omata (Japan)
Mr. Ghedini (Italy)
Mr. Biedermann (Liechten.)
Mr. Clayton (U.K.)
Mr. Schneider (Luxemburg)
Mr. Gonthier (Switzerland)
Mr. Liu (China)

General Secretariat

Mr. Albert
Mr. Capdepón

A meeting of the Technical Committee, chaired by Mr. Hamer and attended by the members whose names appear on the left, was held in Madrid, in accordance with previous announcement, at 15.30 hours 13th September 1975.

The Chairman said that the main purpose of the meeting was to inform the Committee of the exercises selected, the marking schemes prepared and the time-limits fixed for exercises in the different trades, as well as to establish appropriate regulations in order that competitors should be working in equal conditions and be in possession of all necessary information.

The General Secretariat, having received the documents requested from the various Marking Juries, the Chairman called upon Mr. Albert to read them and supply any further relevant information.

The General Secretary complied with this request, referring to the different trades according to their numerical order. The Committee learnt that the selected exercises, marking schemes and time-limits were as follows:

Other business The Chairman urged that, on account of recommendations approved by the Technical Committees in previous meetings, members of Marking Committees should henceforth abstain from judging the work of competitors of their own nationality. The recommendation was accepted.

The Chairman also recommended that, in cases where point maxima were low (1, 2, 3, etc.) these should be raised to 10. The result could later be reduced with the corresponding coefficient, in accordance with the points established in the marking scheme.

The Chairman urged the members of the Marking Juries to revise the translations and to request the General Secretariat to make appropriate corrections in case of error.

There being no further business, the session was adjourned and these Minutes, which I hereby undersign as Secretary, were drafted.

MARKING CRITERIA

1.) Fitting

Selected Exercise IRELAND

Basic Measurement	30	points
Secondary Measurement	15	"
Accuracy of Angle and Flatness	10	"
Fit and Function	25	"
Cleanness	10	"
Use of Material	5	"
Time	5	"
	100	Points

2.) Press Toolmaking

Selected Exercise IRELAND

Basic measurements finish and		"
strip of blank	25	"
Functioning of tool	10	"
Fundamental measurements	35	"
Finish of tool	10	"
Angularity and flatness	10	"
Material utilisation	5	"
Time utilisation	5	"
	100	Points

3.) INSTRUMENT MAKING

Selected Exercise Austria

Casting and measurements	30	Points
Basic and secondary measurements	40	"
Flatness and angles	13	"
General appearance	12	"
Time	5	"

100 Points

20 hours

Time

4.) WATCHMAKING

Selected Exercise Spain/ Switzerland

Checking of chronograph	25	Points
Adjustment of watch movement (H)	20	"
Preparation of winder shaft	20	"
Checking of 1 electric watch	15	"
Preparation of flywheel	10	"
Material	5	"
Time	5	"

100 Points

Normal time /Time allowed 20 hours

5.) MARKING SCHEME

Selected Exercise Italy/ Portugal

Development	25	Points
Tailstock	10	"
Composition	20	"
Parte 2	10	"
" 1	6	"
" 3	6	"
" 4	6	"
" 5	6	"
" 6	6	"
" 7	7	"
Time	5	"

100 Points

Time

23 Hours

6.) TUNING

Selected Exercise Germany

Basic measurements	50	Points
Secondary measurements	15	"
Assembly (mounting)	12	"
General finish	13	"
Use of material	5	"
Time	5	"

100 Points

Time

22 Hours

7. MILLING

Selected Exercise Italy	
Basic measurements	40 Points
Secondary measurements	10 "
Function	20 "
Accuracy of angles and surface flatness	10 "
General finish	10 "
Use of material	5 "
Time	5 "
	100 Points
Time	25 Hours

8.) CONSTRUCTIONAL STEEL WORK

Selected Exercise Germany	
Basic Measurements	20 Points
Secondary Measurements	15 "
Welding and oxy cutting	25 "
Layout and fidelity to instructions	5 "
Accuracy of angles and symmetry	15 "
General finish	10 "
Use of material	5 "
Time	5 "
	100 Points
Time	22 Hours

9.) GAS WELDING

Selected exercise Ireland			
<u>Tests:</u>	Radiographic (2 joints 2x5)	10 Points	} 55
	Bend Tests (Face 2x4 Root 2x6)	20 "	
	Pressure(to destruction)	25 "	
			Max. marks for highest pressure
<u>Pressure Vessel:</u>	Appearance	7 "	} 20
	Lack of undercut	5 "	
	Penetration(Joint in base plates)	3 "	}
	Accuracy of Assembly	5 "	
<u>ALUMINIUM</u>	Appearance and Penetration	10 "	
<u>Mild Steel Bronze Weld:</u>			
	Appearance and Penetration	5 "	
<u>USE OF MATERIAL:</u>		5 "	
Time		5 "	
Time	24 Hours	100 Points	

10.) ELECTRIC WELDING

Selected exercise / Spain/Switzerland		
Visual examination		
Exercise: Vessel	16	Points
Test Pieces 2, 3+ 2, 5	5	"
TIG- Aluminium	7	"
TIG- Stainless Steel	7	"
Tests		
Radiographic/X- Ray 10+10	20	"
Bend 10+10	20	"
Hydraulic	20	"
Time	5	"
	100	Points
Time	20	Hours

11.) WOOD PATTERN MAKING

Selected exercise/ Germany		
Basic measurements	23	Points 7 measurements 4pts
Secondary measurements	20	" " " 1 pt sea
Preparation Technique	11	"
Function of pattern	15	"
Function of lower- part (core Box)	3	"
Surface finish	3	"
Upright projection pattern	10	"
Time	5	"
Time	26	Hours
	100	Points

13.) PAINT DRAWING

Selected exercise/ Spain		
Lay out	10	Points
Fidelity dimensions		
Accuracy of drawing	32	"
Joints	13	"
Beating and jointing	20	"
Flanges	5	"
Window	5	"
General finish	5	"
Use of material	5	"
Time	5	"
Time	25	Hours
	100	Points

14.) SHEET METAL WORK

Selected exercise /Spain		
Lay- out	20	Points
Measurement precision	15	Points
Joints	13	"
Appearance	32	"
Flanges	10	"
Material consumption	5	"
Time	5	"
Time	24	Hours
	100	Points

15.) PLUMBING

Selected Exercise/ Belgium Belgium France Ireland

Marking Scheme

Maximum working time 22 Hours

Test Nr 1 Sheet Zinc Work:

Measurements	3	Points	
Soldering	5	"	
General Finish	8		25
Good use of Material	4	"	

Test Nr 2 Copper&Plastic Pipe Work:

Copper Tube work:

Pipe Bending	3	Points	
Jointing	7	"	
Measurements	7	"	30
General Finish	5	"	
Good Use of Material	3	"	

Plastic P.V.C. Tube Work

Pipe Bending	7		
Jointing	5		
Measurements	6		25
General finish	5		
Good Use of Material	2		

Test Nr 3 Lead Pipe Work

Pipe Bending	3	"	
Solder Joint	5	"	
Measurements	2	"	15
General Finish	3	"	
Good Use of Material	2	"	
Time	5	"	

100 Points

Time 22 Hours

16.) INDUSTRIAL ELECTRONICS

Selected Exercise Spain

Design of printed circuit 15 "

Problems 15 "

Mechanical assembly, printed circuit

Fitting and functioning description 65 "

Time 5 "

Time 17 Hours 100 Points

17.) RADIO AND TV REPAIRING

Selected Exercise Spain

Radio Repairs 18 " 2 hours

T.V. Repairs 32 " 4 hours

Assembly 10 " 1h 30 minutes

RADIO AND TV REPAIRING NR. 17 Cont

Circuit diagram	10 Points	1 h 30 minutes
Measurements and adjustment	15 "	2 h 35 "
Theory-Test-paper	5 "	45 "
Use of material	5 "	
Time	5 "	
	100 Points	

Time 12 hours

13.) HOUSE WIRING

Selected Exercise Spain

Measurement	10 Points
Fitting and Fixing Tubes and Cables	15 "
Functioning	40 "
Connections	15 "
Fixing Apparatus	5 "
Protection	5 "
Use of Materials	5 "
Time	5 "
	100 Points

Time 23 Hours

19.) INDUSTRIAL WIRING

Selected Exercise Liechtenstein

Functioning	45 Points
Fitting and fixing cables and wires	10 "
Connections	15 "
Fitting equipments	10 "
Protection	5 "
Use of material	5 "
Time	5 "
	100 Points

Time 22 Hours

20.) BRICKLAYING

Selected Exercise Ireland

Measurement precision	20 Points
Plumb and level	20 "
Alignment and angles	10 "
Levelling and elaboration of the joints	15 "
Work on the stones	10 "
Individual parts	10 "
Panel appearance	10 "
Time	5 "
	100 Points

Time 24 Hours

21.) STONE CUTTING

Selected Exercise Austria

Principal Measurements	20 Points
Secondary "	21 Points

STONE CUTTING Cont.21

Agreement of Templets with drawing	9 Points
" " " stone	10 "
General Appearance and neatness	20 "
Clean Sharp edges	7 "
Finish to all Surfaces	3 "
Time	5 "
Time 24 Hours	100 Points

22.) PAINTING

Selected Exercise	
Established by the experts	3 Points
General painting and plastering	12 "
Roller stippled water-base paint	6 "
Colorflatness	3 "
Decorative motive	14 "
Lottering	5 "
Measurement precision	10 "
Clean edges	3 "
Color precision	10 "
Preparation and plastering(door)	10 "
Enamelling	4 "
Appearance and finish	5 "
Time	100 Points
Time 24 Hours	

23.) PLASTERWORK

Selected Exercise France, England and Experts	
Main measurements	15 Points
Secondary measurements	10 "
Smooth plastering	10 "
Angles	12 "
Placing of molding strips	10 "
Molding profiles	15 "
Trowelled fine mortar	6 "
Understanding of blueprints	6 "
General impression of work	6 "
Materials used	5 "
Time	5 "
Time 24 Hours	100 Points

24.) CABINETMAKING

Selected Exercise Germany	
Fundamental measurements	10 Points
Secondary measurements	5 "
Drawing and layout	5 "
Adjustment of moveable elements	20 "
Disposal of iron fittings	10 "
Surfaces	15 "
Interior assemblies	10 "

Exterior assemblies	15 Points
Material assemblies	5 "
Time	5 "
Time e 26 Hours	<u>100 Points</u>

25.) JOINERY

Selected Exercise Austria	
Basic Measurements	20 Points
Secondary Measurements	12 "
Interior Joints	13 "
Exterior Joints	27 "
Cleanliness of surfaces and edges	10 "
Drawing to full size scale	30 "
Utilization of material	5 "
Time	5 "
Time 24 Hours	<u>100 Points</u>

26.) Carpentry

Selected Exercise Ireland	
Basic Measurements	20 Points
Secondary measurements	10 Points
Development	20 Points
Exterior assembly	15 Points
Interior assembly	15 Points
Angles, edges, inclinations	10 Points
Use of material	5 Points
Time	5 Points
Time 22 Hours	<u>100 Points</u>

27.) JEWELLERY

Selected Exercise England	
Measurements	10 Points
Interpretation from design	10 "
Soldering	15 "
Modelling work	20 "
Saw work for holes	20 "
Cleanliness before polishing	15 "
Use of material	5 "
Time	5 "
Time 26 Hours	<u>100 Points</u>

28.) TAILORING

Selected Exercise	
Lining- fit and size	20 Points
Pockets	10 "
Lapels and collar	20 "
Sleeves	15 "
Pressing and finish	15 "
Hang of suit and measurements	10 "
Use of material	5 "

Time		<u>5 Points</u>
Time	26 Hours	100 Points

29.) LADIES' HAIRDRESSING

Selected Exercise Portugal Switzerland

Hair cut	7 Points
Hair do	<u>8 Points</u>
Total	15 Points

2nd Afternoon		3 hours
Restyling to brides hair do	<u>15 Points</u>	
Total	15 Points	

3rd Day Morning		4 h
Dyeing	7 "	
Massage	5 "	
Water waving (technical)	<u>3 "</u>	
Total	20 Points	

3 rd. Day- Afternoon		3 h
Party hair do on the same model	<u>15 Points</u>	
Time 23 Hours	Total 15 Points	

30.) Mens HAIRDRESSING

Selected Exercise Spanien

1st Day Morning

1 Test application of dye	6	60
Diagnosis of washing demonstration	10	60
2nd. test Freestyle haircut	6'22	30
3rd. test Freestayle hairdo		
<u>1st day Afternoon</u>		
4th Test hair washing	1	10
5th test child's haircut	10	45
(according to design)		
6th Test hairdo for preceding haircut	5,16	30'

Time 10 Hours

LADIES TAILORING 31.)

Selected Exercise Spain

Dinnerjacket lapel	15 Points
Sleeves	15 Points
Pockets	15 Points
General appearance	15 Points
Seam and lining	10 2"
Stitching	10 "
Button holes	5 "
Zipppers	5 "
Use of material	5 "
Time	<u>5 "</u>
Time	24 Hours
	100 Points

22.) UPHOLSTERY

Selected Exercise Nederland		
Placing Webbing	5	Points
Positioning and Fixing Springs	20	"
Placing of Hessian and Sewing Springs with Stitches	5	"
Application of trimming Strip	10	"
Coarse Stitching	5	"
Shaping of Back Contour	15	"
Covering With Under Cloth	5	"
Covering " outer Back	5	"
Covering with Under Seat	5	"
Covering with Inner Back	5	"
Placing of Ornamental Accessories	5	"
General Appearance	5	"
Use of Materials	5	"
Time	5	"
Time 26 Hours	100	Points

The Chairmann asked those present whether they agreed with what had been submitted by the General Secretary or whether there was any objection to the work carried out by the Jury Committees. The assembly expressed its unanimous approval

Other business, The Chairman urged that, on account of recommendations approved by the Technical Committee in previous meetings, members of Marking Committees should henceforth abstain from judging the work of competitors of their own nationality, The recommendation was accepted.

The Chairman also recommended that, in cases where point maxima were low(1,2,3, etc.) These should be raised to 10. The result could later be reduced with the corresponding coefficient, in accordance with the points established in the marking scheme. The Chairman urged the members of the Marking Juries to revise the translations and to request the General Secretariat to make appropriate corrections in case of error.

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