DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
INSTRUCTOR AND SUPERVISORY TRAINING					
TM1 PEDAGOGY TRAINING			✓		
TM2 BASIC TRAINING METHODOLOGY FOR INSTRUCTOR	✓				
TM3 SKILL ANALYSIS	✓				
TM4 WRITTEN INSTRUCTIONAL MATERIALS		✓			Standard format to be finalized
TM5 AUDIO-VISUAL AIDS	✓				
TM6 TEST AND TESTING METHODS	✓				
TM7 TRAINING ADMINISTRATION		✓			
TM8 BASIC INSTRUCTIONAL TECHNIQUES FOR IN PLANT TRAINERS			✓		No course conducted
TM9 BASIC INSTRUCTIONAL TECHNIQUES FOR IN PLANT SUPERVISORS	✓				
TM10 MODULE TRAINING SYSTEMS DESIGN	✓				

ANNEX: 3

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
ST1 METHOD AND WORK STUDY	✓				
ST2 QUALITY CONTROL	✓				
ST3 PRODUCTION PLANNING AND CONTROL	✓				
ST4 MAINTENANCE MANAGEMENT	✓				
ST5 INDUSTRIAL SAFETY	✓				
ST6 LEADERSHIP AND HUMAN RELATION	✓				
ST7 DISCIPLINE IN INDUSTRY				✓	

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
AUTOMOTIVE					
A1 PETROL/DIESEL ENGINE SERVICE					
A1.1 Specialized Engine Service	_/				
A1.2 Fuel Injection System Service	_/				
A1.3 Engine Electrical & Electronic Equipment Service	_/				
A2 TROUBLE ANALYSIS					
A2.1 Engine Trouble Analysis	_/				
A2.2 Chassis Trouble Analysis	_/				
A3 PERFORMANCE TEST					
A3.1 Engine Performance Test	_/				
A3.2 Chassis Performance Test	_/				
A4 VEHICLE CHASSIS REPAIR					
A4.1 Specialized Chassis Repair		_/			Information sheet yet to be completed.
A4.2 Body Electrical Equipment Service.		_/			

ANNEX: 3

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
A5 VEHICLE BODY REPAIR					
A5.1 Vehicle Body Parts Repair	_/				
A5.2 Vehicle Frame Repair		_/			In the process of printing.
A5.3 Vehicle Body Parts Painting	_/				
A6 VEHICLE INSPECTION					
A6.1 Vehicle Regular Checking	_/				
A6.2 Vehicle Inspection					

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
MACHINE OPERATION AND DIE MAKING					
MD1 DIE MAKING AND REPAIR					
MD1A Shearing Die Making	_/				
MD1B Drawing Die Making	_/				
MD1C Plastic Mould Making				_/	
MD2 TOOL AND JIG MAKING AND REPAIR			_/		
MD3 FINISHING/FITTING					
MD3.1 Surface, Cylindrical and Centreless Grinding	_/				
MD3.2 Form and Optical Projection Profile Grinding	_/				
MD3.3 Tool and Cutter Grinding	_/				
MD4 MACHINING (INCLUDING NC MACHINE)					

ANNEX: 3

DEPARTMENT / MODULE / SUB-MODULE			PROGRESS OF DEVELOPMENT				Remarks
			100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
MD4A	NC MACHINING						
	MD4A.1	NC Turning	_/				
	MD4A.2	NC Milling	_/				
MD4B	NC EDM AND AUTOMATIC COPY MILLING.						
	MD4B.1	NC Wirecutting	_/				
	MD4B.2	NC Edm	_/				
	MD4B.3	Automatic Copy Milling	_/				
H1	FORGING AND HEAT TREATMENT						
H1A	HEAT TREATMENT PROCESS						
	H1A.1	Heat Treatment Process	_/				
	H1A.2	Advanced Heat Treatment	_/				
H1B	H1B.1	Forging Process			_/		
	H1B.2	Testing for Forging		_/			

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
FABRICATION					
F1 WELDING					
F1.1 CO_2 Arc Welding	✓				
F1.2 Manual Arc Welding	✓				
F1.3 Tig and Mig Welding	✓				
F2 METAL FABRICATION					
F2.1 Basic Metal Fabrication	✓				
F2.2 Advanced Metal Fabrication				✓	
F3 PRESS WORK					
F3.1 Bending Work	✓				
F3.2 Shearing Work	✓				
F3.3 Drawing Work	✓				
F3.4 Inspection and Maintenance of Press Machine		✓			Almost Completed.

ANNEX: 3

DEPARTMENT / MODULE / SUB-MODULE			PROGRESS OF DEVELOPMENT				Remarks
			100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
HEAVYSHOP							
	H2	FOUNDRY					
		H2.1 Gating and Riser System	_/				
		H2.2 Cast Iron Casting	_/				
		H2.3 Steel, Copper Alloy and Aluminium Alloy Casting	_/				
	H3	DIE CASTING TECHNIQUE					
		H3.1 Die Casting Technique				_/	
		H3.2 Advanced Die Casting Technique				_/	
	H4	INVESTMENT CASTING TECHNIQUE					
		H4.1 Investment Casting Technique	_/				
		H4.2 Advanced Investment Casting Technique	_/				

ANNEX: 3

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
H5 RUBBER MOULDING TECHNIQUE					
H5.1 Rubber Moulding Process and Moulding Product	_/				
H5.2 Rubber Materials, the Compounding and Mixing Technique	_/				
H5.3 Rubber Moulding (Injection Type)		_/			
H6 PLASTIC MOULDING TECHNIQUE					
H6.1 Plastic Injection Moulding Machine and Mould	_/				
H6.2 Plastic Materials and Injection Moulding Process	_/				

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
ELECTRICAL/ELECTRONIC					
EE1 RELAY MAINTENANCE AND REPAIR					
EE1.1 Contact Circuit Relay Maintenance and Repair	_/				
EE1.2 Non-Arcing Circuit Relay Maintenance and Repair	_/				
EE1.3 Industrial Wiring and Distribution Panel Works	_/				
EE2 MOTOR TROUBLE ANALYSIS AND REPAIR					
EE2.1 Motor Trouble Analysis and Repair	_/				
EE2.2 Transformer Trouble Analysis and Repair	_/				
EE3 MOTOR-TESTING					
EE3.1 Motor Generator Control Testing	_/				
EE3.2 Motor Automatic Control			_/		40% already completed.

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
EE4 ADVANCED RADIO SERVICE AND REPAIR			_/		
EE5 ADVANCED TV SERVICE AND REPAIR			_/		
EE6 INTER-OFFICE COMMUNICATION EQUIPMENT SERVICE AND REPAIR				_/	
EE7 ELECTRICAL/ELECTRONIC EQUIPMENT SERVICE AND REPAIR					
EE7.1 Disk Operating System	_/				
EE7.2 Assembly Language (8080A/8085)	_/				
EE7.3 High-Level Language (FORTRAN).	_/				

DEPARTMENT / MODULE / SUB-MODULE	PROGRESS OF DEVELOPMENT				Remarks
	100% Completed	> 50% Completed	< 50% Completed	Yet to be developed	
INSTRUMENTS AND AUTOMATIC CONTROL					
I1. PROCESS MEASUREMENTS					
I1.1 Temperature Measurement	_/				
I1.2 Pressure/Level Measurement	_/				
I1.3 Flow Measurement	_/				
I2. INDUSTRIAL INSTRUMENTS					
I2.1 Pneumatic Instruments	_/				
I2.2 Electronic Instruments	_/				
I3. ELECTRICAL (HYDRAULIC) CONTROL					
I3.1 Feedback Control	_/				
I3.2 Hydraulic Control				_/	

ANNEX '4'

JANUARY TO OCTOBER

1986 COURSE DATA

THE CENTER FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSE PARTICIPANTS' OUTPUT FOR 1986

Date : 31.10.86

NO.	SECTION	SEX		EMPLOYER		EDUCATIONAL B.C.					A PLACE OF EMPLOYMENT BY REGION															Total Courses	Capacity
		M	F	Public	Private	Dg	Dp	S	LS	P	PER	KED	PG	PK	KEL	TER	PAH	K.L	SEL	N.S	MEL	JOR	SAB	SAR	TOTAL		
1.	Instructor	204	12	187	29	11	48	90	46	21	-	2	-	1	-	1	1	155	42	11	-	2	1	-	216	14	184
2.	Supervisory	36	1	13	24	3	8	24	2	-	-	3	3	2	-	1	-	10	16	-	-	2	-	-	37	4	42
3.	Automotive	82	-	61	21	2	1	52	27	-	-	1	1	5	9	-	2	34	21	5	1	3	-	-	82	12	120
4.	Machine Operation and Die Making	27	-	21	6	-	1	20	6	-	-	-	1	-	2	-	1	2	19	-	-	2	-	-	27	8	55
5.	Forging and Heat Treatment	9	-	7	2	-	1	7	-	1	-	-	-	-	-	-	-	-	8	1	-	-	-	-	9	3	26
6.	Welding and Metal Fabrication	25	-	16	9	1	-	9	15	-	1	-	2	2	4	1	-	6	9	-	-	-	-	-	25	4	40
7.	Press Work	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Foundry and Casting	11	-	7	4	2	-	9	-	-	-	-	-	-	1	-	1	4	3	-	-	2	-	-	11	4	40
9.	Rubber Moulding	7	1	2	6	4	2	2	-	-	-	3	-	-	-	-	-	3	2	-	-	-	-	-	8	2	20
10.	Plastic Moulding	14	1	6	9	4	1	7	3	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	15	3	30
11.	Electrical	41	-	26	15	-	1	34	6	-	-	5	10	-	-	-	-	6	16	1	-	3	-	-	41	6	60
12.	Electronic	4	-	1	3	-	-	4	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	4	2	10
13.	Instrumentation and Automatic Control	39	1	14	26	1	1	38	-	-	-	-	-	-	-	2	-	21	14	-	-	3	-	-	40	7	56
TOTAL		499	16	361	154	28	64	296	105	22	1	14	17	10	16	5	5	244	166	18	1	17	1	-	515	69	683

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: INSTRUCTOR AND SUPERVISORY TRAINING. SECTION: INSTRUCTOR TRAINING

NO.	*MODULE (SUB-MODULE)*		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	TM.1	Instructor Training Course	30.9.85 - 21.3.86	20	13	11	2	
2.	TM.5	Audio-Visual Aids	17.2.86 - 28.2.86	12	12	12	-	
3.	TM.4	Written Instructional Material	17.3.86 - 28.3.86	12	9	9	-	
4.	TM.2	Basic Training Methodology For Instructor	24.3.86 - 4.4.86	12	8	8	-	
5.	TM.3	Skill Analysis	14.4.86 - 25.4.86	12	10	10	-	
6.	TM.9	Basic Instructional Technique For Inplant Supervisor	21.4.86 - 25.4.86	12	9	9	-	
7.	TM.5	Audio Visual Aids	12.5.86 - 23.5.86	12	13	11	2	
8.	TM.2	Basic Training Methodology For Instructor	19.5.86 - 30.5.86	12	21	20	1	
9.	TM.3	Skill Analysis	16.6.86 - 27.6.86	12	21	20	1	
10.	TM.4	Written Instructional Material	30.6.86 - 11.7.86	12	21	20	1	
11.	TM.5	Audio Visual Aids	14.7.86 - 25.7.86	12	21	20	1	
12.	TM.6	Test and Testing	28.7.86 - 8.8.86	12	21	20	1	
		TOTAL	C/F	152	179	170	9	CON'T..

DATE: 31.10.86 PERCENTAGE E/C CERT/E

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: INSTRUCTOR AND SUPERVISORY TRAINING

SECTION: INSTRUCTOR TRAINING

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
			B/F	151	179	170	9	
13.	TM.1	Instructor Training Course	5.5.86 - 3.10.86	20	29	25	4	
14.	TM.7	Training Administration	13.10.86 - 17.10.86	12	8	8	-	
		TOTAL		184	216	203	13	

DATE: 31.10.86

PERCENTAGE E/C=117.4% CERT/E = 94%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: INSTRUCTOR AND SUPERVISORY SKILL TRAINING

SECTION: SUPERVISORY TRAINING

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	ST.1	Method and Work Study	3.3.86 - 14.3.86	12	10	10	-	
2.	ST.5	Industrial Safety	21.4.86 - 25.4.86	10	10	10	-	
3.	ST.4	Maintenance Management	29.9.86 - 10.10.86	10	13	13	-	
4.	ST.3	Production Planning and Control	20.10.86 - 31.10.86	10	4	4	-	
		TOTAL		42	37	37	-	

DAT : 31.10.86

PERCENTAGE E/C = 80.1% CERT/E = 100%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: AUTOMOTIVE SECTION:

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	A1.1	Specialized Engine Service	21.1.86 - 7.2.86	10	8	8	-	
2.	A1.2	Fuel Injection System Service	17.2.86 - 28.2.86	10	3	3	-	
3.	A6.1	Vehicle Regular Checking	17.2.86 - 28.2.86	10	8	8	-	
4.	A2.1	Engine Trouble Analysis	17.2.86 - 7.3.86	10	3	3	-	
5.	A1.3	Engine Electrical & Electronic Equipment Services	3.3.86 - 7.3.86	10	3	3	-	
6.	A1.2	Fuel Injection Syste- Service	7.4.86 - 18.4.86	10	6	6	-	
7.	A1.1	Specialized Engine Service	12.5.86 - 3.6.86	10	10	10	-	
8.	A3.1	Engine Performance Test	28.7.86 - 16.8.86	10	7	3	4	
9.	A6.2	Vehicle Inspection	7.7.86 - 18.7.86	10	9	9	-	
10.	A2.1	Engine Trouble Analysis	25.8.86 - 12.9.86	10	5	5	-	
11.	A1.1	Specialized Engine Service	15.9.86 - 3.10.86	10	12	12	-	
12.	A1.2	Fuel Injection System Service	6.10.86 - 17.10.86	10	7	7	-	
		TOTAL		120	82	78	4	

DATE: 31.10.86

PERCENTAGE E/C= 68.3% CERT/E = 95.1 %

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: MACHINE OPERATION AND DIE MAKING

SECTION: _____

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	MD1B	Drawing Die Making	11.2.86 - 21.3.86	10	1	1		
2.	MD4B1	NC Wire Cutting	27.1.86 - 7.2.86	6	1	1		
3.	MD4A1	NC Turning	24.2.86 - 14.3.86	8	6	-	-	Practical Not Completed because machine break-
4.	MD4B2	NC EDM	28.4.86 - 9.5.86	6	4	4	-	down. Test to be Conducted Later.
5.	MD4B3	Automatic Copy Milling	16.6.86 - 27.6.86	6	3	3	-	
6.	H1A.2	Advanced Heat Treatment	3.2.86 - 21.2.86	10	2	2	-	
7.	H1A.1	Heat Treatment	7.7.86 - 25.7.86	8	4	4	-	
8.	MD3.3	Tool and Cutter Grinding	28.7.86 - 8.8.86	5	4	4	-	
9.	MD4A.2	N.C. Milling	11.8.86 - 29.8.86	8	3	3	-	
10.	MD.3.1	Surface, Cylindrical & Centreless Grinding	15.9.86 - 26.9.86	6	5	5	-	
11.	H1A.2	Advanced Heat Treatment	6.10.86 - 24.10.86	8	3	3	-	
		TOTAL		81	36	30	-	

DATE: 31.10.86

PERCENTAGE E/C= 44.4% CERT/E = 83.3%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: FABRICATION SECTION: WELDING

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	F1.2	Manual Arc Welding	6.1.86 - 17.1.86	10	3	3	-	
2.	F1.3	Tig and Mig Welding	16.6.86 - 27.6.86	10	7	7		
3.	F1.1	CO_2 Arc Welding	25.8.86 - 12.9.86	10	8	8	-	
4.	F1.2	Manual Arc Welding	13.10.86 - 31.10.86	10	7	5	2	
		TOTAL		40	25	23	2	

DATE: 31.10.86

PERCENTAGE E/C= 62.5 CERT/E= 92%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: HEAVYSHOP SECTION: _____

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	H5.1	Rubber Moulding and Moulding Product	17.2.86 - 28.2.86	10	6	5	1	
2.	H4.1	Investment Casting Technique	7.4.86 - 25.4.86	10	5	5	-	
3.	H6.1	Plastic Injection Moulding Machine and Mould	7.4.86 - 25.4.86	10	6	6	-	
4.	H6.2	Plastic Materials and Injection Moulding Process	7.7.86 - 25.7.86	10	3	3	-	
5.	H2.3	Steel, Copper Alloy and Aluminum Alloy Casting	14.7.86 - 1.8.86	10	2	2	-	
6.	H2.2	Cast Iron Casting	2.9.86 - 23.9.86	10	1	1	-	
7.	H6.1	Plastic Injection Moulding Machine and Mould	2.9.86 - 23.9.86	10	6	4	2	
8.	H5.2	Rubber Materials, The Compounding and Mixing Texhnique	23.9.86 - 10.10.86	10	2	1	1	
9.	H2.1	Gating And Riser System	6.10.86 - 24.10.86	10	3	3	-	
		TOTAL		90	34	30	4	

DATE: 31.10.86

PERCENTAGE E/C= 37.7% CERT/E= 88.2%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: ELECTRICAL AND ELECTRONIC SECTION: _____

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	EE1.1	Contact Circuit Relay Maintenance and Repair	28.1.86 - 19.2.86	10	9	8	1	
2.	EE3.1	Motor Generator Control Testing	3.3.86 - 21.3.86	10	8	8	-	
3.	EE7A.3	High Level Language / (Fortran)	12.5.86 - 3.6.86	5	2	2	-	
4.	EE7.2	Assembly Language (Computer)	30.6.86 - 18.7.86	5	2	2	-	
5.	EE1.3	Industrial Wiring and Distribution Panel Work	23.6.86 - 11.7.86	10	7	7	-	
6.	EE2.2	Transformer Trouble Analysis and Repair	28.7.86 - 8.8.86	10	6	6	-	
7.	EE1.2	Non Arcing Circuit Relay Maintenance and Repair	2.9.86 - 16.9.86	10	7	7	-	
8.	EE2.1	Motor Trouble Analysis & Repair	13.10.86 - 31.10.86	10	4	4	-	
		TOTAL		70	45	44	1	

DATE: 31.10.86

PERCENTAGE E/C = 64.2% CERT/E = 97.7%

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

COURSES DATA 1986 - JANUARY TO OCTOBER

DEPARTMENT: INSTRUMENT AND AUTOMATIC CONTROL SECTION: _____

NO.	MODULE (SUB-MODULE)		COURSE PERIOD	CAPA-CITY	ENROL-MENT	OUT-PUT (O)		REMARKS
	NO.	TITLE		(C)	(E)	CERT	UNCERT	
1.	I1.1	Temperature Measurement	24.2.86 - 7.3.86	8	8	8	-	
2.	I1.2	Pressure and Level Measurement	24.3.86 - 4.4.86	8	6	6	-	
3.	I1.3	Flow Measurement	28.4.86 - 9.5.86	8	8	8	-	
4.	I2.1	Pneumatic Instruments	23.6.86 - 11.7.86	8	6	6	-	
5.	I2.2	Electronic Instrument	14.7.86 - 1.8.86	8	6	6	-	
6.	I3.1	Automatic Control	2.9.86 - 29.9.86	8	5	5	-	
7.	I1.1	Temperature Measurement	13.10.86 - 24.10.86	8	1	1	-	
		TOTAL		56	40	40	-	

DATE: 31.10.86

PERCENTAGE E/C= 71.4% CERT/E = 100%

ANNEX '4A'

COURSE DATA FROM

MAY 1984 TO

OCTOBER 1986

The Centre For Instructor And Advanced Skill Training
Course Data from May 1984 to October 1986

Department (Section)	C/part Assigned	Module Developed	Courses Conducted	Total Capacity	participants	
					Enrolled	Certificated
INSTRUCTOR & SUPERVISORY						
TRAINING:						
i) Instructor	9	6	32	404	460	445
ii) Supervisor	3	6	11	122	82	78
AUTOMOTIVE	7	11	25	250	177	172
MACHINE OPERATION AND						
DIE MAKING						
i) Machining & Die Making	7	10	12	87	43	37
ii) Forging & Heat Treat.	2	2	4	36	13	13
FABRICATION						
i) Welding & Metal Fab.	5	4	5	50	26	24
ii) Press work	1	3	3	30	5	5
HEAVYSHOP						
i) Foundry & Casting	5	5	5	50	14	14
ii) Rubber Moulding	2	2	2	20	8	6
iii) Plastic Moulding	2	2	6	60	28	26
ELECTRICAL & ELECTRONIC						
i) Electrical	4	6	9	90	57	52
ii) Electronic (Comp)	4	3	3	15	6	6
INSTRUMENTATION AND						
AUTOMATIC CONTROL	4	6	9	72	48	48
Total	55	66	126	1286	967	926

The Centre For Instructor And Advanced Skill Training PHASE I-1

Course data, 1984 - May to December

Department (Section)	C/part Assigned	Module Developed	Courses Conducted	Total Capacity	participants	
					Enrolled	Certificated
INSTRUCTOR AND SUPERVISORY						
i) INSTRUCTOR	6		7	80	100	100
ii) SUPERVISOR	3					
AUTOMOTIVE	5	3	2	20	12	12
Total	14	3	9	100	112	112

The Centre For Instructor And Advanced Skill Training PHASE I-2

Course data, 1985 - January to April

Department (Section)	C/part Assigned	Module Developed	Courses Conducted	Total Capacity	participants	
					Enrolled	Certificated
INSTRUCTOR AND SUPERVISORY						
TRAINING :-						
i) INSTRUCTOR	5		2	24	24	24
ii) SUPERVISOR	3	1	1	12	7	7
AUTOMOTIVE	6	1	3	30	32	31
Total	14	2	6	66	63	62

The Centre For Instructor And Advanced Skill Training PHASE II-1

Course data, 1985 - May to December

Department (Section)	C/part Assigned	Module Developed	Courses Conducted	Total Capacity	participants	
					Enrolled	Certificated
INSTRUCTOR AND SUPERVISORY						
TRAINING:						
i) INSTRUCTOR	7	1	9	116	120	118
ii) SUPERVISOR	3	1	6	68	38	34
AUTOMOTIVE	6	2	8	80	51	51
MACHINE OPERATION AND						
DIE MAKING:						
i) MACHINE & DIE MAKING	6	2	4	32	16	16
ii) FORGING & HEAT TREAT.	1	1	1	10	4	4
FABRICATION:						
i) WELDING & METAL FAB.	3	1	1	10	1	1
ii) PRESS WORK	2	3	3	30	5	5
HEAVYSHOP:						
i) FOUNDRY & CASTING	4	1	1	10	3	3
ii) RUBBER MOULDING	1	-	-	-	-	-
iii) PLASTIC MOULDING	2	-	3	30	13	13
ELECTRICAL & ELECTRONIC:						
i) ELECTRICAL	3	3	3	30	16	12
ii) ELECTRONIC	4	1	1	5	2	2
INSTRUMENT AND AUTOMATIC						
CONTROL	3	2	2	16	8	8
Total	45	18	42	437	277	267

The Centre For Instructor And Advanced Skill Training PHASE II-2

Course data, 1986 - January to October

Department (Section)	C/part Assigned	Module Developed	Courses Conducted	Total Capacity	participants	
					Enrolled	Certificated
INSTRUCTOR AND SUPERVISORY						
TRAINING:						
i) INSTRUCTOR	9	5	14	184	216	203
ii) SUPERVISOR	3	4	4	42	37	37
AUTOMOTIVE:	7	5	12	120	82	78
MACHINE OPERATION AND						
DIE MAKING:						
i) MACHINE & DIE MAKING	7	8	8	55	27	21
ii) FORGING & HEAT TREAT.	2	1	3	26	9	9
FABRICATION:						
i) WELDING & METAL FAB.	5	3	4	40	25	23
ii) PRESS WORK	1	-	-	-	-	
HEAVYSHOP:						
i) FOUNDRY & CASTING	5	4	4	40	11	11
ii) RUBBER MOULDING	2	2	2	20	8	6
iii) PLASTIC MOULDING	2	2	3	30	15	13
ELECTRICAL & ELECTRONIC						
i) ELECTRICAL	4	3	6	60	41	40
ii) ELECTRONIC (COMP)	4	2	2	10	4	4
INSTRUMENTATION AND						
AUTOMATIC CONTROL	4	4	7	56	40	40
Total	55	43	69	683	515	485

AGENDA: 2

OPERATIONAL PLAN

OPERATIONAL PLAN

The plan covers an 11-month training schedule till end of Technical Cooperation period in July 1987 as in Annex 5. It includes the following:-

(i) To complete the remaining modules

(ii) To conduct training on all completed modules at frequencies of not less than 2 per course.

(iii) To provide 11 places for counterparts training in Japan.

ANNEX '5'

11 - MONTH TRAINING SCHEDULE

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: INSTRUCTOR & SUPERVISORY SKILL TRAINING

Section: INSTRUCTOR TRAINING

TRAINING SCHEDULE (1986.9 1987.7)

(C)

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
35 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31											
(CAPACITY) 1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27 5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 25 31 2 9 15 22 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 25 3 10 17 24 31											
TM.1 TRAINING METHODOLOGY FOR INSTRUCTOR	An (Az)	B (I)									
TM.2 BASIC TRAINING METHODOLOGY FOR INSTRUCTOR								B (An)			
TM.3 SKILL ANALYSIS										I (An)	
TM.4 WRITTEN INSTRUCTIONAL MATERIALS										N (No)	
TM.5 AUDIO-VISUAL AIDS				N (No)		NO (N)		N (No)			NO (N)
TM.6 TEST AND TESTING											
TM.7 TRAINING ADMINISTRATION		I (B)									
TM.8 INSTRUCTIONAL TECHNIQUES FOR IN-PLANT TRAINERS				Az (Zul)							
TM.9 BASIC INSTRUCTIONAL TECHNIQUES FOR IN-PLANT SUPERVISORS											
TM.10 MODULE TRAINING SYSTEM DESIGN			B (I)								
	Sit for TM.1 Mr. Idris released full time from TM.1										

REMARKS

I = IDRIS MOHAMAD

B = BAHARUDDIN ABU BAKAR

An = ANTHONYSAMY

Az = AZIZAH BT. ABD. HAMID

Zul = ZULKIFLI HJ. MOHD. SIDI

N = V.P. NATHAN

No = NORDIN BIN KAMALUDIN

Miss Azizah will be in Japan for 9 months

Mr. Idris & Mr. Baharuddin join in for the preparation of TM.1

Starting course on New/Improved TM.1

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept INSTRUCTOR & SUPERVISORY SKILL TRAINING

TRAINING SCHEDULE (1986.9 1987.7)

(A)

Section: SUPERVISORY TRAINING

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
(CAPACITY)	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29	1 5 12 19 26 2 9 16 23 30 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31	2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31
ST1: METHOD AND WORK STUDY			L				I (Y)				
ST2: QUALITY CONTROL			H		H						
ST3: PRODUCTION PLANNING AND CONTROL		L								L (X)	
ST4: MAINTENANCE MANAGEMENT		I			I					I (Y)	
ST5: INDUSTRIAL SAFETY					L						
ST6: LEADERSHIP AND HUMAN RELATION								L (X)			
ST7: DISCIPLINE IN INDUSTRY											H (Z)

Short-term Expert for ST.7 -participants/counterparts will be Mr. Ibrahim, Mr. Latiff and Mr. Hasman.

REMARKS

I = IBRAHIM
L = LATIF
H = HASMAN.

X, Y & Z: ADDITIONAL STAFFS, DIPLOMA HOLDER SHOULD BE ASSIGNED BY FEBRUARY 1987.

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: AUTOMOTIVE

TRAINING SCHEDULE (1986.9 1987.7)

(A)

Section:

MODULE / SUB-MODULE (CAPACITY)	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	35 37 38 39 40	41 42 43 44	45 46 47 48	49 50 51 52 53	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21 22	23 24 25 26	27 28 29 30 31
	1 6 15 22 29 / 5 12 19 25	3 10 17 24 31	7 14 21 28	5 12 19 26 31	2 9 16 23 30	6 13 20 27	6 13 20 27	3 10 17 24 1	8 15 22 29	5 12 19 26	3 10 17 24 31
A1. PETROL & DIESEL ENGINE SERVICE											
A1.1 Specialized Engine Service	R(K)				R(K)				R(K)		
A1.2 Fuel Injection System Service		H(K)	H(K)			H(K)			H(K)		** H(K)
A1.3 Engine Electrical and Electronic Equipment Services		M(R)					R(K)			R(M)	
A2. TROUBLE ANALYSIS											
A2.1 Engine Trouble Analysis	M(H)		R(M)			M(R)					
A2.2 Chassis Trouble Analysis								M(K)			
A3. PERFORMANCE TEST											
A3.1 Engine Performance Test					K($)					K($)	
A3.2 Vehicle Performance Test				K($)				K($)			
A4. VEHICLE CHASSIS REPAIR											
A4.1 Specialized Chassis Repair									M(KA)		
A4.2 Body Electrical Equipment				M(R)							M(R)
REMARKS	**REGIONAL TRAINING										

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: AUTOMOTIVE

TRAINING SCHEDULE (1986.9 1987.7)

(A)

Section:

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53	1 2 3 4 5	6 7 8 9	10 11 12 13 14	15 16 17 18	19 20 21 22	23 24 25 26 27	28 29 30 31
(CAPACITY)	1 8 15 22 / 5 12 19 26	29 6 13 20 27 / 3 10 17 24 31	3 10 17 24 / 7 14 21 28	1 8 15 22 29 / 5 12 19 26 31	1 8 15 22 29 / 2 9 16 23 30	6 13 20 27 / 6 13 20 27	2 9 16 23 30 / 5 13 20 27 3	6 13 20 27 / 10 17 24 1	4 11 18 25 / 8 15 22 29	1 8 15 22 29 / 5 12 19 26	6 13 20 27 / 3 10 17 24 31
A5. VEHICLE BODY REPAIR											
A5.1 Vehicle Body Parts Repair					KA (AZ)						
A5.2 Vehicle Frame Repair	KAT / AZ KA	KA (A)				KA (AZ)					
A5.3 Vehicle Body Parts Painting		STE / AZ (KA)				KA (AZ)					
A6. VEHICLE INSPECTION											
A6.1 Vehicle Regular Checking								H (KA)			
A6.2 Vehicle Inspection										KA (H)	

REMARKS

1. R = MR. RAZI BIN HJ. JOHARI
2. H = MR. HUSIN BIN AHMAT
3. M = MR. MOKHTAR BIN OSMAN
4. K = MR. KAMARULZAMAN BIN CHU ABD. RANI
5. KA = MR. KARIM BIN DATO' HJ. KAMARUDDIN
6. S = SYED MOHD. NOOR B. SYED MAT ALI
7. AZ = MR. AZAHARI - will attend TM.1 from March until Sept. 1987
8. STE = SHORT-TERM EXPERT

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: MACHINE OPERATION & DIE MAKING

TRAINING SCHEDULE (1986.9 1987.7)

(A)

Section: _____

MODULE / SUB-MODULE	(CAPACITY)	1	9	8	6	1	9	8	7
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
		36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31										
		1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
		5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 16 23 30 6 13 20 27 6 12 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31										
MD1A	SHEARING DIE MAKING			AJ(R,K)								
MD1B	DRAWING DIE MAKING											
MD1C	PLASTIC MOULD MAKING										AJ(R,K)	
MD2	TOOL & JIG MAKING & REPAIR						I(R,K)					
MD3.1	Surface, Cylindrical and Centreless Grinding	I(R)								A(S)		
MD3.2	Form and Opitcal Projection Profile Grinding			A(M)							I(S)	
MD3.3	Tool and Cutter Grinding							I(AJ)				
MD4A.1	N.C. TURNING						AJ(A,HOD)					
MD4A.2	N.C. MILLING									HOD(M,I)		
MD4B.1	N.C. WIRECUTTING	HOD(M,A)										
MD4B.2	N.C. E.D.M.				M(HOD,I)							A(HOD,M)
MD4B.3	AUTOMATIC COPY MILLING							M(HOD)				

REMARKS

HOD = MOHAMAD (HEAD OF DEPT.)
AJ = AHMAD JANTAN
A = ANWAR
I = ISKANDAR
S = SAIFUDDIN
K = KARIM HASSAN
M = MAT SETIA
R = RANI BIN KASSIM

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: MACHINE OPERATION & DIE MAKING

Section: FORGING AND HEAT TREATMENT

TRAINING SCHEDULE (1986.9 1987.7)

(A)

MODULE / SUB-MODULE	1 Sep				9 Oct				8 Nov				6. Dec				1 Jan					1 Feb				1 Mar				9 Apr				8 May				7 Jun				1 Jul			
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
(CAPACITY)	1 5	8 12	15 19	22 26	29 3	6 10	13 17	20 24	27 31	3 7	10 14	17 21	24 28	1 5	8 12	15 19	22 26	29 31	1 2	5 9	12 16	19 23	26 30	2 6	9 13	16 20	23 27	2 6	9 13	16 20	23 27	30 3	6 10	13 17	20 24	27 1	4 8	11 15	18 22	25 29	1 5	8 12	15 19	22 26	29 3	6 10	13 17	20 24	27 31
H1-A HEAT TREATMENT																																															
H1-A1 Heat Treatment Process											MD1A			K										MD2				K														MD1C				K				
H1-A2 Advanced Heat Treatment							K																																									
H1-B FORGING																																															
H1-B1 Forging Process	K(S)																		K																											K,S			
H1-B2 Testing for Forging																																K																

REMARKS

K: MR. KARIM BIN HASSAN (18th March, 1983)

S: MR. SHUKRI CHE HASSAN (4th February, 1986)

Mr. Shukri will go to Japan in October 1986. (Study in Japan)

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: FABRICATION

TRAINING SCHEDULE (1986.9 1987.7)

Section: WELDING

(B)

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
(CAPACITY)	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31										
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 1 5 12 19 26 2 9 15 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31										
F1. WELDING											
F1.1 CO2 Arc Welding	B (R) (G)				B (R) (G)					B (G)	
F1.2 Manual Arc Welding		B (R) (G)				B (G)					
F1.3 TIG and MIG Welding				B (R) (G)				B (G)			
									R in TM.1		

REMARKS

G: Ghazlan bin Ghazali (In charge of Test and Inspection)

B: Bahari bin Abu Bakar

N: Mohd. Noor bin Menhad

R: Abdul Rahman bin Yusoff

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: FABRICATION

TRAINING SCHEDULE (1986.9 1987.7)

Section: METAL FABRICATION

(A&B)

MODULE / SUB-MODULE / (CAPACITY)	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29	1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31	2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 2 10 17 24 31
F2 METAL FABRICATION											
F2.1 Basic Metal Fabrication			M(R)			M(R)					
F2.2 Advanced Metal Fabrication											M(N)
	M, N, R STE					N Training in Japan			R on TM.1		

REMARKS

M: Murni bin Moner STE: Short-Term Expert

N: Mohd. Noor bin Menhad

R: Abdul Rahman bin Yusoff

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: FABRICATION

TRAINING SCHEDULE (1986.9 1987.7)

Section: PRESS WORK

(A)

MODULE / SUB-MODULE (CAPACITY)	1	9	8	6	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 6 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29	1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31	2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31
F3 PRESS WORK											
F3.1 Bending Work			Bu(G)								
F3.2 Shearing Work					Bu(G)						
F3.3 Drawing Work											
F3.4 Inspection and Maintenance of Press Machine						Bu(G)					
	Bukhori Training in Japan						Bukhori Attending TM.1				

REMARKS

G: Ghazlan bin Ghazali

Bu: Mohd. Bukhori bin Ahmad

M: Murni bin Moner

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: FABRICATION

TRAINING SCHEDULE (1986.9 1987.7)

(B)

Section: PRESS WORK

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53	1 2 3 4 5	6 7 8 9	10 11 12 13 14	15 16 17 18	19 20 21 22	23 24 25 26 27	28 29 30 31
(CAPACITY)	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 31 2 9 16 23 30 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 31 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 16 23 30 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 25 3 10 17 24 31										
F3 PRESS WORK											
F3.1 Bending Work			Bu (G)								A
F3.2 Shearing Work					Bu (G)						
F3.3 Drawing Work											
F3.4 Inspection and Maintenance of Press Machine						Bu (G)					
	Bukhori Training in Japan				A Training in Press Work				Bukhori Attending TM 1		

REMARKS

G: Ghazlan bin Ghazali

Bu: Mohd. Bukhori bin Ahmad

A: "Diploma Mr. A" must be assigned at the latest by January 1987.

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: HEAVYSHOP

TRAINING SCHEDULE (1986.9 1987.7)

Section: FOUNDRY AND CASTING

(B)

MODULE / SUB-MODULE	1	9	8	6	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
(CAPACITY)	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31										
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 28 5 12 19 26 3 10 17 24 31										
H2 FOUNDRY											
H2-1 Gating and Riser Systems		Z(Za,S)								Z(S,H)	
H2-2 Cast Iron Casting	ZA(S)				Z(S,H)						
H2-3 Steel, Copper Alloy and Aluminium Alloy Casting							Z(S,H)				
H3 DIE CASTING			S,E								
H3-1 Die Casting Technique						H(Z,S)			H(Z,S)		
H3-2 Advanced Die Casting Technique			S,E					H(Z,S)			H(Z,S)
H4 INVESTMENT CASTING											
H4-1 Investment Casting Technique						S(Z,H)					
H4-2 Advanced Investment Casting Technique	S(AZ)									S(Z,H)	
H4-3 Traditional Lost Wax Technique											

REMARKS

Z: MOHD. ZAKARIA BIN HJ. MOHD. YUSOFF Za: ZAIHAN BIN SHUKRI

S: SUMALI BIN HASSAN

H: HASHIM BIN SALLEH (He will be in Japan till October 1986)

A: ABD. HADI BIN CHE WAIL (He will attend courses in Japan from October 1986)

Note: Short-term Expert in Die Casting will be in CIAST from Sept. to Dec. 1986.

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: HEAVYSHOP

Section: RUBBER MOULDING

TRAINING SCHEDULE (1986.9 1987.7)

(B)

MODULE / SUB-MODULE / (CAPACITY)	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29	1 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 25 31	2 9 16 23 30 6 13 20 27 5 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 25 3 10 17 24 31
H5 RUBBER MOULDING TECHNIQUE											
H5-1 Rubber Moulding Process and Moulding Products						H(R)					
H5-2 Rubber Moulding Materials, The Compounding and Mixing Technique		R(H						H(R)			
H5-3 Rubber Moulding (Injection Type)					R(H,Z)					H(R,Z)	

REMARKS

R: RAHMAT BIN AYOB Attending TM.1 from 16/6/86 to 14/11/86.

H: HAMZAH BIN MAT ISA Attending TM.1 after 2/3/87.

Za: ZAIHAN BIN SHUKRI

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: HEAVYSHOP

TRAINING SCHEDULE (1986.9 1987.7)

Section: PLASTIC MOULDING

(A)

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39	40 41 42 43 44	45 46 47 48	49 50 51 52 53	1 2 3 4 5	6 7 8 9	10 11 12 13	14 15 16 17	18 19 20 21 22	23 24 25 26	27 28 29 30 31
(CAPACITY)	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 31 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
H6 PLASTIC MOULDING TECHNIQUE											
H6-1 Plastic Injection Moulding Machine and Mould	S(Z)				A(Z)						AS(Z)
H6-2 Plastic Materials and Injection Moulding Process			A(Z)				A(Z)				

REMARKS

1. Instructors are shown as follows:
   S: CHE SAUPI A: AZAHAR Z: ZAIHAN
2. The duration and date of training in Japan for the instructors are as follows:
   (a) Azahar 9 months, Jan. 86 - Sept. 86
   (b) Saupi 9 months, Oct. 86 - June 86
3. Syllabus contents and duration of the sub-module are as follows:
   (a) H6-1 = H6-1 (old) + H6-4 (old) : 3 weeks
   (b) H6-2 = H6-2 (old) + H6-3 (old) + H6-5 (old) 3 weeks

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: ELECTRICAL & ELECTRONIC

TRAINING SCHEDULE (1986.9 1987.7)

(A)

Section: ELECTRICAL

MODULE / SUB-MODULE (CAPACITY)	1	9	8	6	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 2 5 12 19 26 2 9 16 23 30 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 5 13 20 27
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 18 25 3 10 17 24 31
EE1 RELAY MAINTENANCE AND REPAIR											
EE1.1 Contact Circuit Relay Maintenance and Repair			* AA (RL)				AA (NR)				** AA (NR)
EE1.2 Non-Arcing Circuit Relay Maintenance and Repair	AA (NR)				AA (RL)						
EE1.3 Industrial Wiring & Distribution Panel Work											
EE2 MOTOR TROUBLE ANALYSIS AND REPAIR											
EE2.1 Motor Trouble Analysis and Repair		NR (RL)								NR (AA)	
EE2.2 Transformer Trouble Analysis and Repair								NR (AA)			
EE3 MOTOR TESTING											
EE3.1 Motor-Generator Control Testing					NR (AA)						
EE3.2 Motor Automatic Control			Preparation			RL (NR)					

REMARKS

Instructors: AA: Encik Azmi Ali
NR: Tuan Haji Mohd. Noor bin Rashid
RL: Cik Roslinda Daud - scheduled to attend TM.1 in early March

Key: * Outstation course
** Regional course

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: ELECTRICAL & ELECTRONIC

Section: ELECTRONIC

TRAINING SCHEDULE (1986.9 1987.7)

(A)

MODULE / SUB-MODULE	1	9	8	6.	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
(CAPACITY)	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31										
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 1 8 15 22 29 2 9 16 23 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27										
	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 31 2 9 15 23 30 6 13 20 27 5 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31										
EE4 ADVANCED RADIO SERVICE AND REPAIR		STE		AH (RS)						AH (RS)	
EE5 ADVANCED TV SERVICE AND REPAIR						SZ (AH, GA)					
EE6 INTER-OFFICE COMMUNICATION EQUIPMENT SERVICE AND REPAIR											
EE7 INTER-OFFICE EQUIPMENT SERVICE AND REPAIR											
EE7.1 Disk Operating System											RS (NK)
EE7.2 Assembly Language (8080A/8085)						RS (NK)					
EE7.3 High-Level (FORTRAN)											

REMARKS

AH - Azmi Hasim (Returned from Japan in June 1986)
RS - Ramli Salleh (Scheduled for Japan from October 1987)
SZ - Shamsidà Zainal Abidin (Scheduled for TM.1 from March 1987 and for Japan October 1987)
GA - Ghani Ahmad (Scheduled for TM.1 from March 1986 to November 1986)
NK - Nidzam Kamarulzaman
Request: EE4 Short-Term Expert 10-86 - 11-86
EE6 Short-Term Expert 1-87 - 2-87
Note: Z80 included from second training (*)

THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING

Dept.: INSTRUMENT & AUTOMATIC CONTROL

TRAINING SCHEDULE (1986.9 1987.7)
(C)

Section:

MODULE / SUB-MODULE (CAPACITY)	1	9	8	6	1	9	8	7
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 2 9 16 23 30 6 13 20 27 4 11 18 25 1 8 15 22 29 6 13 20 27
	5 12 19 25 3 10 17 24 31 7 14 21 28 5 12 19 25 31 2 9 16 23 30 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31
I1 PROCESS MEASUREMENT											
I1.1 Temperature Measurement (2W)		I (Az)								* C	
I1.2 Pressure and Level Measurement			I (Az)								* C
I1.3 Flow Measurement				I (Az)							
I2 INDUSTRIAL INSTRUMENTS											
I2.1 Pneumatic Instruments					* Az) Z)						
I2.2 Electronic Instruments						* Az (Z)					
I3 ELECTRICAL (HYDRAULIC) CONTROL											
I3.1 Feedback Control	Z (M)						* Z (Az)				
I3.2 Hydraulic Control										* Az (I)	

REMARKS

Instructors' names are shown as follows:

Z: ZABIDIN ABD. SAMAD
Az: AZHAR MAT NOOR
I: IBRAHIM BIN ALI (B)
M: MOHAMAD B. OSMAN
* Change of date
o Additional courses

AGENDA: 3

REQUEST FOR EXTENSION OF TECHNICAL COOPERATION

REQUEST FOR EXTENSION OF TECHNICAL COOPERATION

The Technical Cooperation period will be completed by August 1987.

All modules reflected in the 'Record of Discussion' signed on 20th. August 1982 are scheduled to be completed by then. The request for extension covers areas that need to be broadened in order to keep phase with the demand of the industries and to cope with the rapid changes in technology.

The Centre has identified the areas covered for further Technical Cooperation as indicated in Annex 6. The request includes:-

(i) Redevelopment of 10 existing modules.

(ii) Despatch of at least 8 long term and 3 short term experts.

(iii) Training for 20 additional counterparts.

(iv) Provision of related equipment.

ANNEX '6'

MODULE REDEVELOPMENT

MODULE REDEVELOPMENT PLAN OF 8 SECTIONS

IN PHASE II CIAST PROJECT

(OCTOBER 22, 1986)

SECTION	MODULES COVERED IN PHASE II (A)	BASIS FOR REDEVELOPMENT (B)	REMAINED MODULES (A - B)	RESULT OF REDEVELOPMENT						TOTAL MODULES AFTER REDEVELOPMENT (A-B+C+D)
				NEW MODULES					ORIGINAL MODULES (D)	
				(C)	Type of sub-modules					
					H	W	R	O		
AUTOMOTIVE	5 - 11	2 - 5	3 - 6	4 - 11	2	5	1	3		7 - 17
DIE MAKING	3 - 3	1 - 1	2 - 2	2 - 4	4				1 - 2	5 - 8
MACHINE OPERATION	4 - 9	1 - 3	3 - 6	2 - 5		1	4		1 - 3	6 - 14
WELDING & METAL FABRICATION	2 - 5	1 - 3	1 - 2	1 - 3		3			1 - 3	3 - 8
FOUNDRY & CASTING	3 - 7	1 - 3	2 - 4	1 - 5	2	1		2		3 - 9
ELECTRICAL CONTROL	4 - 10	3 - 8	1 - 2	3 - 7		4	1	2	2 - 5	6 - 14
INSTRUMENT & AUTOMATIC CONTROL	3 - 7	1 - 2	2 - 5	1 - 4		2	2		1 - 2	4 - 11
TRAINING SOFTWARE	2 - 2		2 - 2							2 - 2
T O T A L	26 - 54	10 - 25	16 - 29	14 - 39	8	16	8	7	6 - 15	36 - 83

Form A

REDEVELOPMENT OF MODULES

Department : PEDAGOGY
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remain	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
TM 4 – WRITTEN INSTRUCTIONAL MATERIAL	2 weeks	REM.			
TM 5 – AUDIO VISUAL AIDS	2 weeks	REM.			

Form 3

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department : PEDAGOGY

Section : Software Development

Job Description	1987									1988													1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Conduct special Audio Visual Aids course including operating skill of equipment for CIAST STAFF.	—	—	—	—		—	—	—		—	—	—	—	—	—	—		—	—	—																
Assist all Departments in the production of AVA for all Modules and for Asian Regional Training.	AUTOMOTIVE					INSTRUMENT AND AUTO. CONTROL								HEAVY SHOP																							
	ELECTRICAL ELECTRONIC							FABRICATION										INSTRUCTOR & SUPERVISOR TRAINING																			
										MACHINE OPERATION & DIE MAKING													SOFTWARE DEVELOPMENT SECTION													
Assist all Departments in the translation or reproduction of some existing colour slides, video tapes and 16mm flims.																																				
ASEAN Regional Training TM 5 - AUDIO VISUAL AIDS																																				

Form C

S T A F F

Department : PEDAGOGY

Section :

	1987												1988												1989												1990		
	4	5	6	7	8	9	10	11	12				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
COUNTERPART																																							
H.O.D. ( )																																							
SUIMI B. AED. MAJID							←	J	→																															
SOFTWARE:																																							
1. V.P. NATHAN																																							
2. NORDIN KAMALUDDIN																																							
3. ZULKIFLI MOHD. SIDI		TM	→										←		J			→																						
To be added :																																							
Diploma Elect/Electro(X)	MR. X1												←		TM1			→							←		J			→										
Experience (Y)																									←		TM1			→								J	
EXPERT																																							
Longterm																																							
Shortterm A( )																																							
B( )																																							

Form A

REDEVELOPMENT OF MODULES

Department : AUTOMOTIVE

Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
A1 PETROL/DIESEL ENGINE SERVICES		RED			
A1.1 SPECIALIZED ENGINE SERVICES	3 weeks		A1A(87) PETROL ENGINE SERVICES		
A1.2 FUEL INJECTION SYSTEM SERVICES	3 weeks		A1A(87).1 SPECIALIZED PETROL ENGINE SERVICES	3 weeks	(A1.1)
A1.3 ENGINE ELECTRICAL/ELECTRONIC EQUIPMENTS SERVICES	3 weeks		A1A(87).2 ELECTRONIC INJECTION ENGINE SERVICES.	3 weeks	H
			A1A(87).3 EMISSION CONTROL SYSTEM	3 weeks	W
			A1B(87) DIESEL ENGINE SERVICES		
			A1B(87).1 SPECIALIZED DIESEL ENG. SERVICES.	3 weeks	H
			A1B(87).2 FUEL INJECTION SYSTEM SERVICES.	3 weeks	(A1.2)
			A1C(87) AUTO-ELECTRICAL/ELECTRONIC EQUIPMENTS SERVICES.		
			A1C(87).1 FUNDAMENTAL AUTO ELECTRONICS	3 weeks	W
			A1C(87).2 ENG. ELECTRICAL/ELECTRONIC EQUIPMENTS SERVICES	3 weeks	(A1.3)
			A1C(87).3 CHASSIS ELECTRICAL/ELECTRONIC EQUIPMENTS SERVICES	3 weeks	R (A4)
A2 TROUBLE ANALYSIS		REM			
A2.1 ENGINE TROUBLE ANALYSIS	3 weeks				
A2.2 CHASSIS TROUBLE ANALYSIS	3 weeks				

REPRESENTATION : W = WIDENED
H = HEIGHTENED
R = RECOMBINED.

RED. = REDEVELOP
REM. = REMAINED

Form A

REDEVELOPMENT OF MODULES

Department : AUTOMOTIVE
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
A3 PERFORMANCE TESTS		REM.			
A3.1 ENGINE PERFORMANCE TEST	3 weeks				
A3.2 CHASSIS PERFORMANCE TEST	2 weeks				
A4 VEHICLE CHASSIS REPAIR		RED.	A4(87) VEHICLE CHASSIS REPAIR		
A4.1 SPECIALIZED CHASSIS REPAIR	3 weeks		A4(87).1 STEERING SYSTEM AND WHEEL ALIGNMENT	3 weeks	W
A4.2 BODY ELECTRICAL EQUIPMENT SERVICE	2 weeks		A4(87).2 AUTOMATIC TRANSMISSION SERVICES	3 weeks	W
			A4(87).3 BRAKE SYSTEM SERVICES	2 weeks	W
A6 VEHICLE INSPECTION		REM.			
A6.1 VEHICLE REGULAR CHEEKING	2 weeks				
A6.2 VEHICLE INSPECTION	3 weeks				

REPRESENTATION : W = WIDENED H = HEIGHTENED R = RECOMBINED. RED. = REDEVELOP REM. = REMAINED

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department : AUTOMOTIVE

Section :

Module / Sub-Module (capacity)	1987									1988												1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
A1.A(87) PETROL ENGINE SERVICES																																				
A1.A(87).1 SPECIALIZED PETROL ENGINE SERVICES (10)		—				—					—							—																		
A1.A(87).2 ELECTRONIC INJECTION ENGINE SVCS. (10)							CT	SW																												
A1.A(87).3 EMISSION CONTROL SYSTEM (10)												SW			CT																					
A1.B(87) DIESEL ENGINE SERVICES																																				
A1.B(87).1 SPECIALIZED DIESEL ENG. SVCS. (10)					SW		CT																													
A1.B(87).2 FUEL INJECTION SYSTEM SVCS. (10)	—							—			—				—																					
A1.C(87) AUTO-ELECTRICAL/ELECTRONIC EQPTS. SVCS																																				
A1.C(87).1 FUNDAMENTAL AUTO ELECTRONICS. (10)																	SW	CT																		
A1.C(87).2 ENG. ELECT/ ELECTRONIC EQPTS. SVCS. (10)			—							—			—	SW								—													
ASEAN Regional Training				—																—																

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department : AUTOMOTIVE

Section :

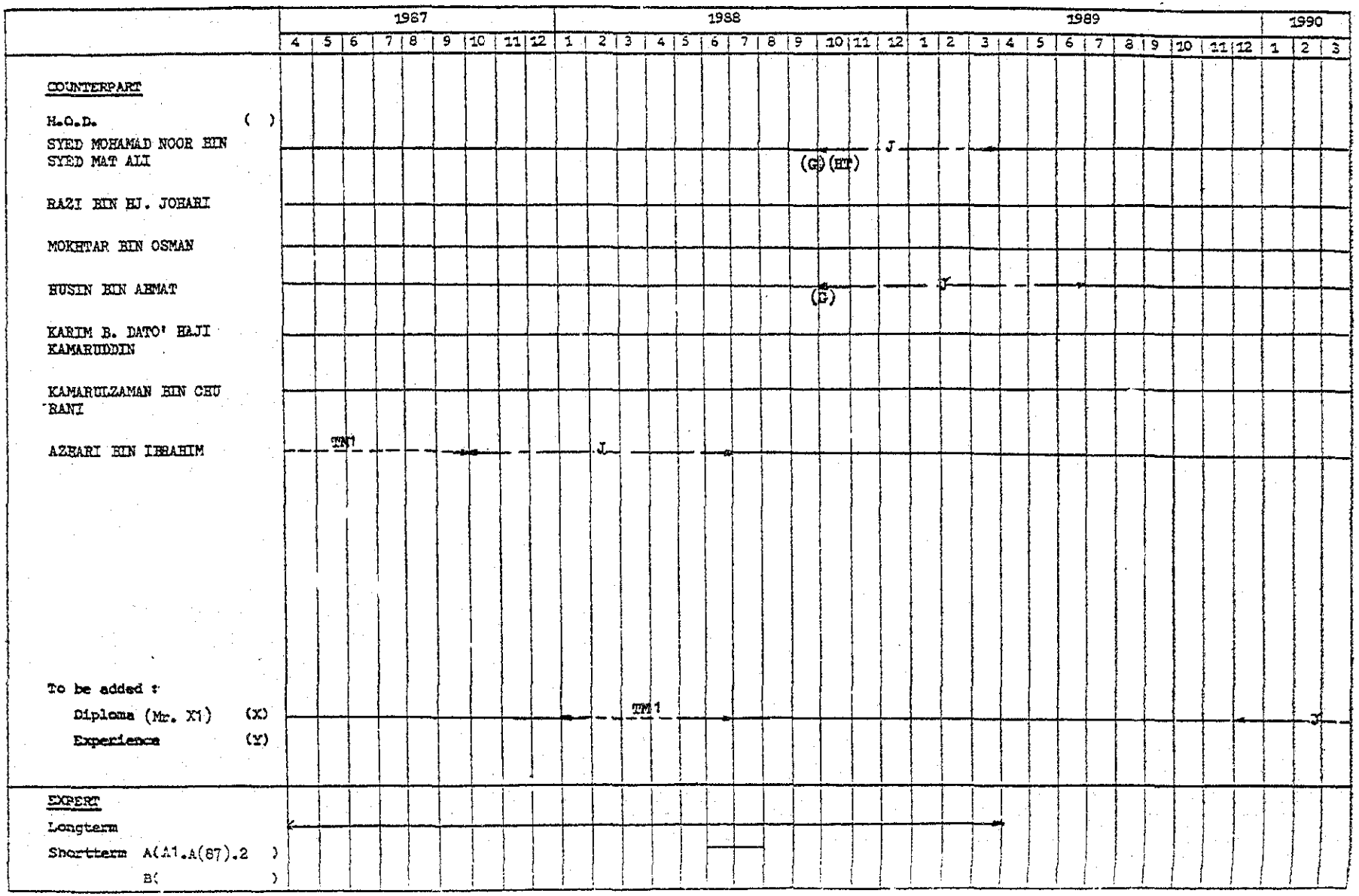
Module / Sub-Module (capacity)	1987												1988												1989												1990		
	4	5	6	7	8	9	10	11	12				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
A1.C(87).3 CHASSIS ELECT/ELECTRONIC EQPTS. SERVICES. (10)				—												—							—																
A4(87) VEHICLE CHASSIS REPAIR																																							
A4(87).1 STEERING SYSTEM AND WHEEL ALIGNMENT. (10)		CT	Sw	—																—					—														
A4(87).2 AUTOMATIC TRANSMISSION SERVICES. (10)		—		—	—														—						—														
A4(87).3 BRAKE SYSTEM SERVICES. (10)														SW	—				C	m	—						—													
ASEAN Regional Training																																							

From C

S T A F F

Department : AUTOMOTIVE

Section :



Form A

REDEVELOPMENT - OF MODULES

Department : MACHINE OPERATION & DIE MAKING
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
MD1A SHEARING DIE MAKING	6 weeks	REM.			
MD1B DRAWING DIE MAKING	5 weeks	REM.			
MD1C PLASTIC MOULD MAKING	8 weeks	RED.	MD1C(87) PLASTIC MOULD MAKING		
			MD1C(87).1 PLASTIC MOULD MAKING I	3 weeks	(MD1C.1)
			MD1C(87).2 PLASTIC MOULD MAKING II	4 weeks	(MD1C.2)
			MD1D(87) PROGRESSIVE DIE MAKING		
			MD1D(87).1 PROGRESSIVE DIE MAKING I	3 weeks	H
			MD1D(87).2 PROGRESSIVE DIE MAKING II	4 weeks	H
			MD1E(87) SLIDE CORE TYPE PLASTIC MOULD MAKING		
			MD1E(87).1 SLIDE CORE TYPE PLASTIC MOULD MAKING I	3 weeks	H
			MD1E(87).2 SLIDE CORE TYPE PLASTIC MOULD MAKING II	4 weeks	H

REPRESENTATION:

W : Widened
H : Heightened
R : Recombined
REM: Remained
RED: Redevelop

Form A

REDEVELOPMENT OF MODULES

Department : MACHINE OPERATION AND DIE MAKING
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
MD2 TOOL AND JIG MAKING AND REPAIR	6 weeks	REM			
MD3 FINISHING/FITTING		REM			
MD3.1 SURFACE, CYLINDRICAL & CENTRELESS GRINDING	2 weeks				
MD3.2 FORM & OPTICAL PROJECTION PROFILE GRINDING	2 weeks				
MD3.3 TOOL AND CUTTER GRINDING	2 weeks				
MD4A NC MACHINING		REM			
MD4A.1 NC TURNING	3 weeks				
MD4A.2 NC MILLING	3 weeks				
MD4B NC ELECTRICAL DISCHARGE MACHINING AND COPY MILLING		RED	MD4B ELECTRICAL DISCHARGE MACHINING AND COPY MILLING		
MD4B.1 NC WIRECUTTING	2 weeks		MD4B.1 NC WIRECUTTING	2 weeks	(MD4B.1)
MD4B.2 NC ELECTRICAL DISCHARGE MACHINING	2 weeks		MD4B.2 NC ELECTRICAL DISCHARGE MACHINING	2 weeks	(MD4B.2)
MD4B.3 AUTOMATIC COPY MILLING	2 weeks		MD4B.3 AUTOMATIC COPY MILLING	2 weeks	(MD4B.3)
			MD4C(87) MACHINE MAINTENANCE		
			MD4C(87).1 MECHANICAL MAINTENANCE	3 weeks	W
			MD4C(87).2 HYDRAULIC MAINTENANCE	2 weeks	R (I3)

REPRESENTATION:
W : Widened
H : Heightened
R : Recombined
REM: Remained
RED: Redevelop

Form A

REDEVELOPMENT OF MODULES

Department : MACHINE OPERATION & DIE MAKING
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remain	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
			MD4D(87) ELECTRICAL CIRCUIT MAINTENANCE		
			MD4D(87).1 ELECTRICAL RELAY AND DRIVING	3 weeks	R (EE2)
			MD4D(87).2 ELECTRICAL RELAY MAINTENANCE		R (EE1)
			MD4D(87).1 CONTROLLER MAINTENANCE		R (EE1.7)

REPRESENTATION:

W : Widened
H : Heightened
R : Recombined
REM: Remained
RED: Redevelop

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department MACHINE OPERATION & DIE MAKING

Section DIE MAKING

Module / Sub-Module (capacity)	1987									1988											1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
MD1 DIE MAKING AND REPAIR																																				
MD1A(87) SHEARING DIE MAKING																																				
MD1A(87).1 SHEARING DIE MAKING I (10)		—									—											—													
MD1A(87).2 SHEARING DIE MAKING II(10)				—									—											—											
MD1B(87) DRAWING DIE MAKING																																				
MD1B(87).1 DRAWING DIE MAKING I (10)					—													—											—						
MD1B(87).2 DRAWING DIE MAKING II(10)							—													—											—				
MD1C(87) PLASTIC MOULD MAKING																																				
MD1C(87).1 PLASTIC MOULD MAKING I (10)	—														—																					
MD1C(87).2 PLASTIC MOULD MAKING II(10)			—														—																		
MD1D(87) PROGRESSIVE DIE MAKING																																				
MD1D(87).1 PROGRESSIVE DIE MAKING I (6)																				—								—								
MD1D(87).2 PROGRESSIVE DIE MAKING II (6)																					—									—						
ASEAN Regional Training																																				

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department: MACHINE OPERATION & DIE MAKING

Section: DIE MAKING

Module / Sub-Module (capacity)	1987									1988												1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
MD1E(87) SLIDE CORE TYPE PLASTIC MOULD MAKING																																				
MD1E(87).1 SLIDE CORE TYPE PLASTIC MOULD MAKING I (6)																																				
MD1E(87).2 SLIDE CORE TYPE PLASTIC MOULD MAKING II (6)																																				
MD2 TOOL & JIG MAKING AND REPAIR																																				
MD2(87).1 TOOL & JIG MAKING AND REPAIR I (4)																																				
MD2(87).2 TOOL & JIG MAKING AND REPAIR II (4)																																				
MD3 FINISHING/FITTING																																				
MD3.1 SURFACE CYLINDRICAL & CENTRELESS GRINDING (6)																																				
MD3.2 FORM & OPTICAL PROJECTION PROFILE GRINDING (6)																																				
MD3.3 TOOL & CUTTER GRINDING (5)																																				
MD4 MACHINING (INCLUDING NC MACHINING)																																				
MD4A NC MACHINING																																				
MD4A.1 NC TURNING (6)																																				
MD4A.2 NC MILLING (6)																																				
ASEAN Regional Training MD1C(87) PLASTIC MOULD MAKING (6)																																				

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department: MACHINE OPERATION & DIE MAKING

Section: DIE MAKING

Module / Sub-Module (capacity)	1987									1988													1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
MD4B NC ELECTRIC DISCHARGE & COPY MILLING																																				
MD4B.1 NC WIRE CUTTING (6)				—		—						—				—			—					—				—			—					
MD4B.2 NC ELECTRIC DISCHARGE MACHINING (6)					—		—								—					—							—					—				
MD4B.3 AUTO COPY MILLING (6)					—			—						—					—							—				—						
MD4(87)C MACHINE MAINTENANCE																																				
MD4C(87).1 MECHANICAL MAINTENANCE (6)								—							—					—							—				—					
MD4C(87).2 HYDRAULIC MAINTENANCE (6)											—					—					—							—					—			
MD4(87)D ELECTRICAL CIRCUIT MAINTENANCE																																				
MD4D(87).1 ELECTRICAL RELAY AND DRIVING (6)											—								—							—				—						
MD4D(87).2 ELECTRICAL RELAY MAINTENANCE (6)															—									—				—								
MD4(87)E CONTROL MAINTENANCE																																				
MD4E(87).1 CONTROLLER MAINTENANCE (6)								—				—						—					—							—							
ASEAN Regional Training																																				
MD4B.1 NC WIRE CUTTING (12)																				—												—				

From C

STAFF

Department : MODM

Section :

	1987									1988													1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
COUNTERPART																																				
H.O.D. ( )																																				
MOHAMAD BIN YAACOB																																				
AHMAD BIN JANTAN																																				
MAT SETIA BIN MOHD. RAJI																																				
ANWAR BIN IBRAHIM																																				
ISKANDAR BIN MINGIN																																				
SAIFUDDIN BUSRA																																				
ABD. RANI BIN KASSIM	(G)						J																													
To be added :																																				
Diploma (X1)																																J				
Experience (X2)																							J													
(X3)																																J				
EXPERT																																				
Longterm Die Making						K. Ueda											N.D.T. Expert																				
Shortterm Machine Operation																																				
A(MD4D ('87) 3,																																				
B( )																																				

Form A

REDEVELOPMENT OF MODULES

Department : FABRICATION

Section : WELDING & METAL FABRICATION

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
F1 WELDING		RED	F1A WELDING		
F1.1 CO_2 ARC WELDING	3 weeks		F1A.1 CO_2 AND MIG ARC WELDING	3 weeks	R(F1.1&F1.3)
F1.2 MANUAL ARC WELDING	3 weeks		F1A.2 MANUAL ARC WELDING	2 weeks	(F1.2)
F1.3 TIG AND MIG WELDING	2 weeks		F1A.3 TIG AND ARC WELDING	2 weeks	R(F1.2&F1.3)
			F1B (87) NON-DESTRUCTIVE TESTING		
			F1B.1(87) X-RAY TESTING	2 weeks	W
			F1B.2(87) ULTRASONIC TESTING	2 weeks	W
			F1B.3(87) MAGNETIC AND PENETRANT TESTING	1 weeks	W
F2 METAL FABRICATION		REM.			
F2.1 BASIC METAL FABRICATION	2 weeks				
F2.2 ADVANCED METAL FABRICATION	3 weeks				

REPRESENTATION:

W : Widened R : Recombined RED: Redevelop
H : Heightened REM: Remained

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department: FABRICATION

Section: Welding / Metal Fab

Module / Sub-Module (capacity)	1987									1988												1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
F1A WELDING																																				
F1A.1 CO_2 AND MIG ARC WELDING (10)																																				
F1A.2 MANUAL ARC WELDING (10)																																				
F1A.3 TIG ARC WELDING (10)																																				
F1B NON-DESTRUCTIVE TESTING																																				
F1B.1 X-RAY TESTING (6)																																				
F1B.2 ULTRASONIC TESTING (10)																																				
F1B.3 MAGNETIC AND PENETRANT TESTING (10)																																				
ASEAN Regional Training																																				
F1A.3 TIG ARC WELDING (10)																																				

From C

S T A F F

Department: FABRICATION

Section: Welding/ Metal Fab

	1987									1988													1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
COUNTERPART																																				
H.O.D. ( )																																				
GHAZLAN BIN GHAZALI (Dg)										J																										
BAHARI BIN ABU BAKAR (Ex)																																				
AED. RAHMAN B. YUSOFF (Dip)			TM 1								J																									
MURNI BIN MONER																			(G)				J													
MOHD. NOOR BIN MENHAD (Dip)		J																																		
To be added :																								TM1											J	
Diploma (X)																																				
Experience (Y)																																				
EXPERT																																				
Longterm																																				
Shortterm A( )																																				
B( )																																				

Form A

REDEVELOPMENT OF MODULES

Department : HEAVYSHOP
Section : FOUNDRY

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
			H2 (87) FOUNDRY		
H2 FOUNDRY		RED.	H2 (87) 1 GATING AND RISER SYSTEM	3 weeks	(H2.1)
H2.1 GATING AND RISER SYSTEM	3 weeks		H2 (87) 2 CAD : GATING AND RISERING	1 weeks	H
H2.2 CAST IRON CASTING	3 weeks		H2 (87) 3 CASTINGS	3 weeks	(H2.2)
H2.3 STEEL, COPPER ALLOY AND ALUMINIUM ALLOY CASTING	3 weeks				
			H2 (87) 4 CUPOLA MELTING	1 weeks	W
			H2 (87) 5 ANALYSIS OF CASTING DEFECTS	1 weeks	H
H3 DIE CASTING		REM.			
H3.1 DIE CASTING TECHNIQUE	3 weeks				
H3.2 ADVANCED DIE CASTING TECHNIQUE	2 weeks				
H4 INVESTMENT CASTING		REM.			
H4.1 INVESTMENT CASTING TECHNIQUE	3 weeks				
H4.2 ADVANCED INVESTMENT CASTING TECHNIQUE	3 weeks				

REPRESENTATION : W = WIDENED
H = HEIGHTENED
R = RECOMBINED

RED. = REDEVELOP
REM. = REMAINED

Form 9

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department : HEAVYSHOP

Section : Foundry & CASTING

Module / Sub-Module (capacity)	1987									1988												1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
H2 FOUNDRY																																				
H2('87).1.1 GATING AND RISER SYSTEM (10)					—					—				—									—												—	
H2('87).1.2 CAD:GATING AND RISE-RING (10)																		----	----	----							—									
H2('87).2 CASTINGS (10)	—	—							—				—			—								—				—							—	
H2('87).4 CUPOLA MELTING (10)																				----	----						—					—				
H2('87).5 ANALYSIS OF CASTING DEFECTS (10)						----	----	----	—			—			—										—			—							—		
ASEAN Regional Training (12)																															----	----	----				
H2.1 GATING AND RISERING (10)																															----	----	----				

From C

S T A F F

Department : HEAVYSHOP

Section : FOUNDRY

	1987									1988													1989												1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
COUNTERPART																																				
H.O.D. ( )																																				
ZAKARIA M. YUSSOF (H2)																																				
HADI CHE WAIL (H2, H4)		J										TM1																								
SUMALI HASSAN (H3, H4)																																				
HASHIM SALLEH (H3, H4)																																				
AZAHAR HASSAN																																				
To be added : NEW HOD (H2,H3,H4) (W)											J																								J	
Diploma (H2) (X)												TM1																								
Experience (Y)																																				
EXPERT																																				
Longterm (H2,H3,H4)																																				
Shortterm A( )																																				
B( )																																				

Form A

REDEVELOPMENT OF MODULES

Department : ELECTRICAL AND ELECTRONIC
Section : ELECTRICAL CONTROL

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or remained	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
EE1 RELAY MAINTENANCE AND REPAIR		RED.	EE1A(87) RELAY MAINTENANCE AND REPAIR		
EE1.1 CONTACT CIRCUIT RELAY MAINTENANCE & REPAIR	3 weeks		EE1A(87).1 CONTACT CIRCUIT RELAY MAINTENANCE & REPAIR	3 weeks	(EE1.1)
EE1.2 NON-ARCING CIRCUIT RELAY MAINTENANCE	2 weeks		EE1A(87).2 NON-ARCING RELAY MAINTENANCE & REPAIR	2 weeks	(EE1.2)
EE1.3 INDUSTRIAL WIRING AND DISTRIBUTION	2 weeks		EE1B(87) INDUSTRIAL WIRING AND DISTRIBUTION PANEL WORKS.		
			EE1B(87).1 INDUSTRIAL WIRING	3 weeks	W
			EE1B(87).2 DISTRIBUTION PANEL WORKS	2 weeks	W
EE2 MOTOR TROUBLE ANALYSIS AND REPAIR		REM.			
EE2.1 MOTOR TROUBLE ANALYSIS AND REPAIR	3 weeks				
EE2.2 TRANSFORMER TROUBLE ANALYSIS & REPAIR	2 weeks				
EE3 MOTOR TESTING		RED.	EE3(87) MOTOR TEST AND CONTROL		
EE3.1 MOTOR-GENERATOR CONTROL TESTING	3 weeks		EE3.1 MOTOR GENERATOR CONTROL TESTING	3 weeks	(EE3.1)
EE3.2 MOTOR AUTOMATIC CONTROL	2 weeks		EE3.2 MOTOR AUTOMATIC CONTROL	2 weeks	(EE3.1)
			EE3(87).3 MICRO-COMPUTER SYSTEM AND LANGUAGE	2 weeks	R(EE7)
EE7 ELECTRICAL/ELECTRONIC OFFICE EQUIPMENT		RED.	EE7A COMPUTER SOFTWARE		
EE7.1 DISK OPERATING SYSTEM	2 weeks		EE7A.1 DISK OPERATING SYSTEM	2 weeks	(EE7.1)
EE7.2 ASSEMBLY LANGUAGE (8080/8085)	3 weeks		EE7A.2 ASSEMBLY LANGUAGE (8080A/8085)	3 weeks	(EE7.2)
EE7.3 FORTRAN	3 weeks		EE7A.3 FORTRAN	3 weeks	(EE7.3)
			EE7B(87) COMPUTER HARDWARE		
			EE7B(87).1 ELECTRICAL/ELECTRONIC DEVICES TESTINGS	3 weeks	W
			EE7B(87).2 MICRO-COMPUTER SYSTEM ANALYSIS	3 weeks	W

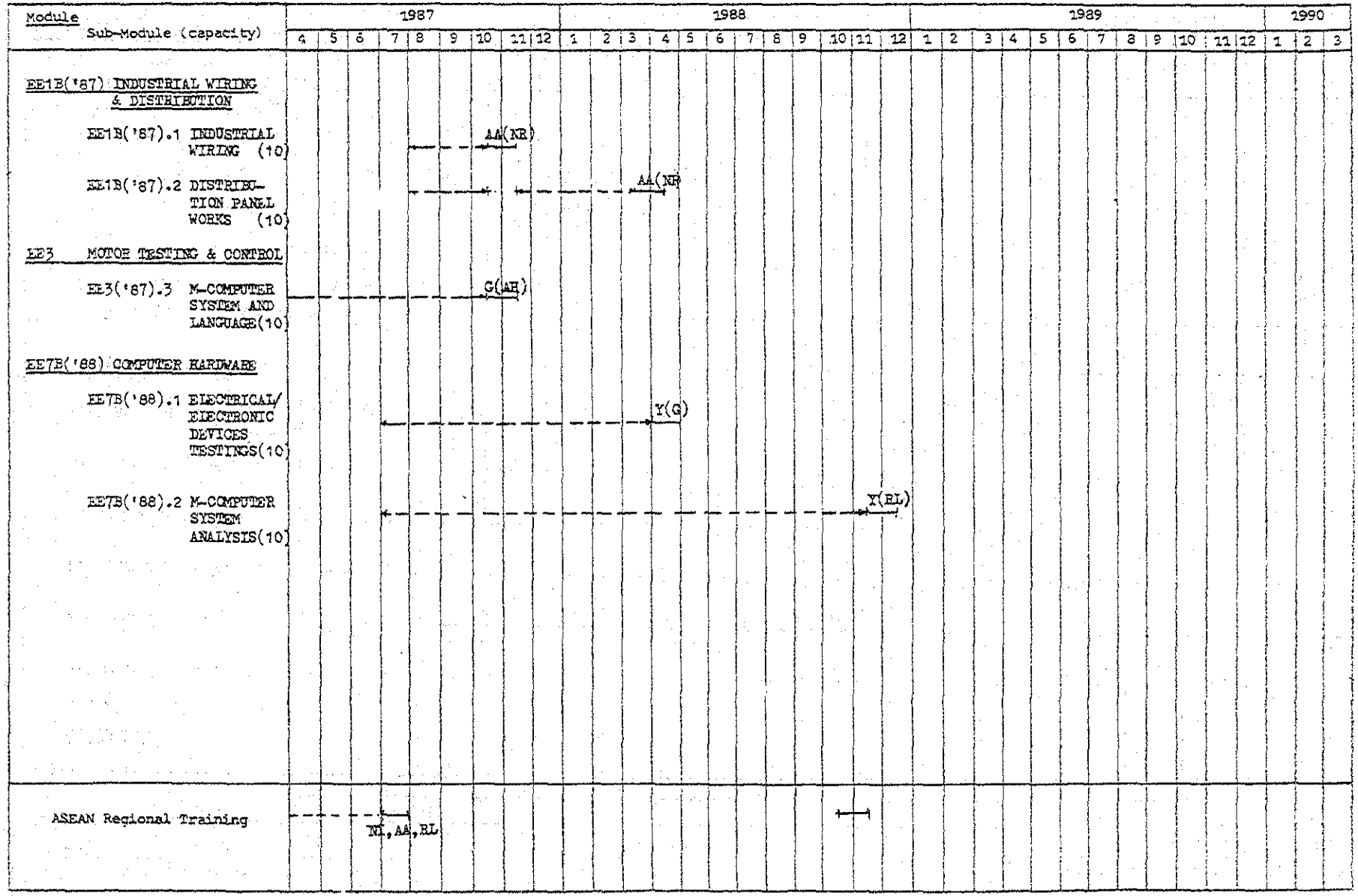
REPRESENTATION : W = WIDENED
H = HEIGHTENED
R = RECOMBINED

RED. = REDEVELOP
REM. = REMAINED

Form 3

MODULE DEVELOPMENT & TRAINING SCHEDULE

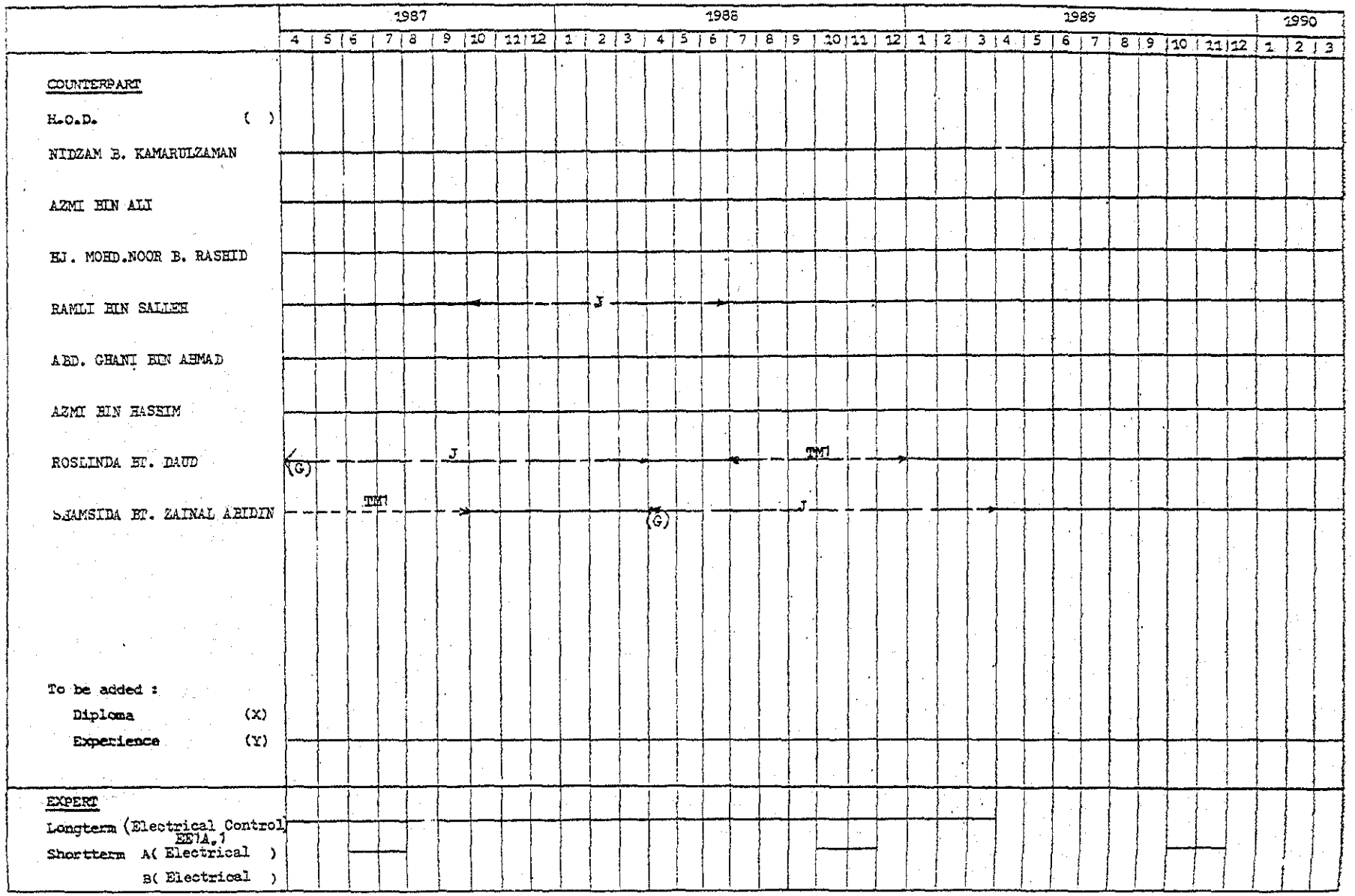
Department : ELECTRICAL & ELECTRONIC
Section : ELECTRICAL CONTROL



From C

STAFF

Department : Electrical & Electronic
Section : Electrical Control



Form A

REDEVELOPMENT OF MODULES

Department : INSTRUMENT & AUTOMATIC CONTROL
Section :

Existing Modules			Modules to be redeveloped		
Module Number and Title Sub-Module Number and Title	Duration of Training	To be redeveloped or	Module Number and Title Sub-Module Number and Title	Duration of Training	Type of Redevelopment
I1 PROCESS MEASUREMENT		REM			
I1.1 TEMPERATURE MEASUREMENT	2 weeks				
I1.2 PRESSURE AND LEVEL MEASUREMENT	2 weeks				
I1.3 FLOW MEASUREMENT	2 weeks				
I2 INDUSTRIAL INSTRUMENTS		REM			
I2.1 PNEUMATIC INSTRUMENTS	3 weeks				
I2.2 ELECTRONIC INSTRUMENTS	3 weeks				
I3 ELECT. (HYDRAULIC) CONTROL		RED	I3A AUTOMATIC CONTROL		
I3.1 FEEDBACK CONTROL	4 weeks		I3A.1 FEEDBACK CONTROL	4 weeks	(I3.1)
I3.2 HYDRAULIC CONTROL	2 weeks		I3A.2 HYDRAULIC CONTROL	2 weeks	(I3.2)
			I3B(87) DIGITAL CONTROL		
			EE7B(87).2 MICRO-COMPUTER SYSTEM ANALYSIS	3 weeks	R(EE7)
			EE7A(87).2 ASSEMBLY LANGUAGE PROGRAMMING	3 weeks	R(EE7)
			I3B (87).3 BASIC DIGITAL CONTROLLERS	2 weeks	W
			I3B (87).4 DIGITAL CONTROL APPLICATIONS	2 weeks	W

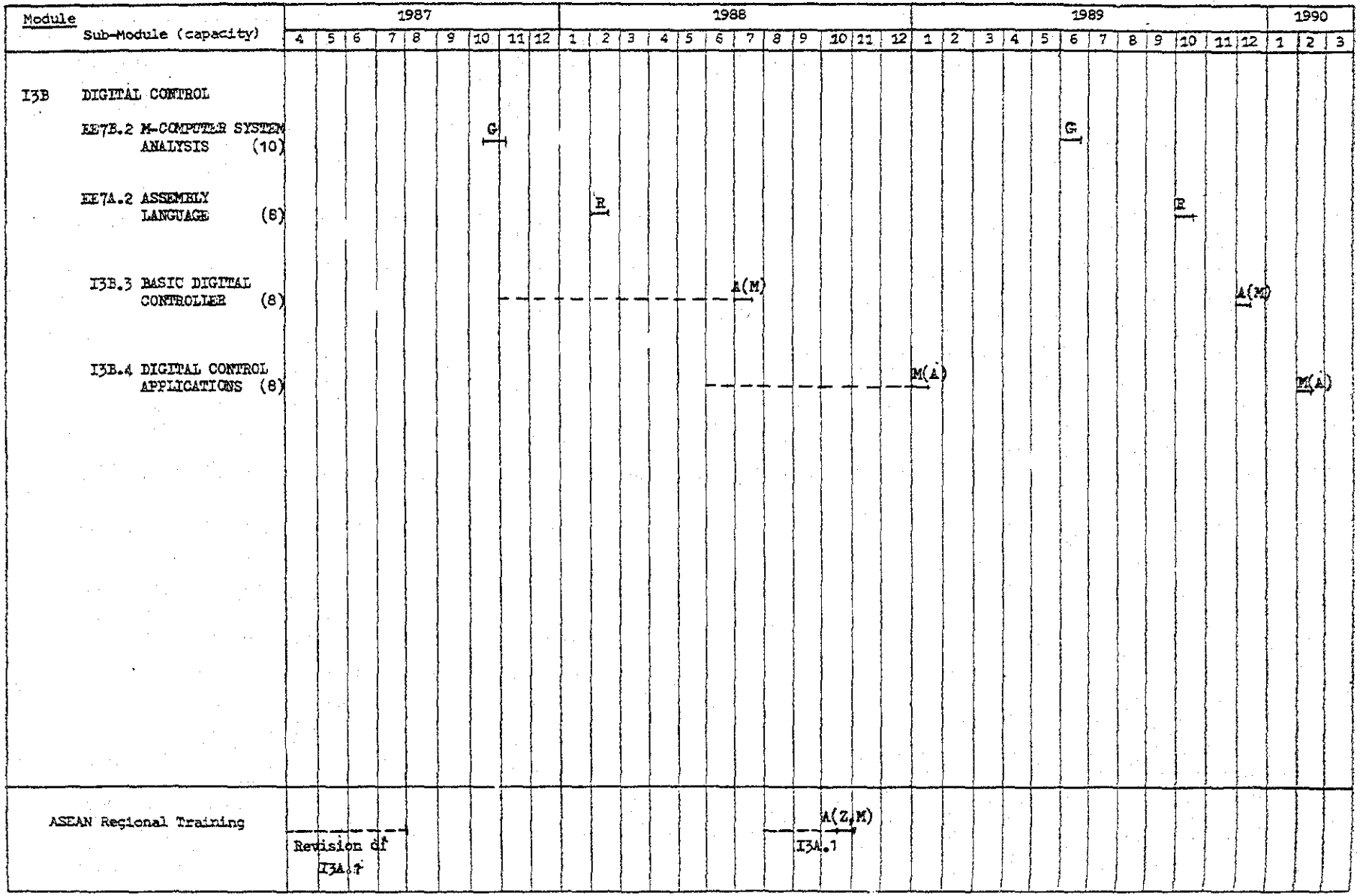
REPRESENTATION : W = WIDENED
H = HEIGHTENED
R = RECOMBINED

RED. = REDEVELOP
REM. = REMAINED

Form B

MODULE DEVELOPMENT & TRAINING SCHEDULE

Department : Instrument & Automatic Control



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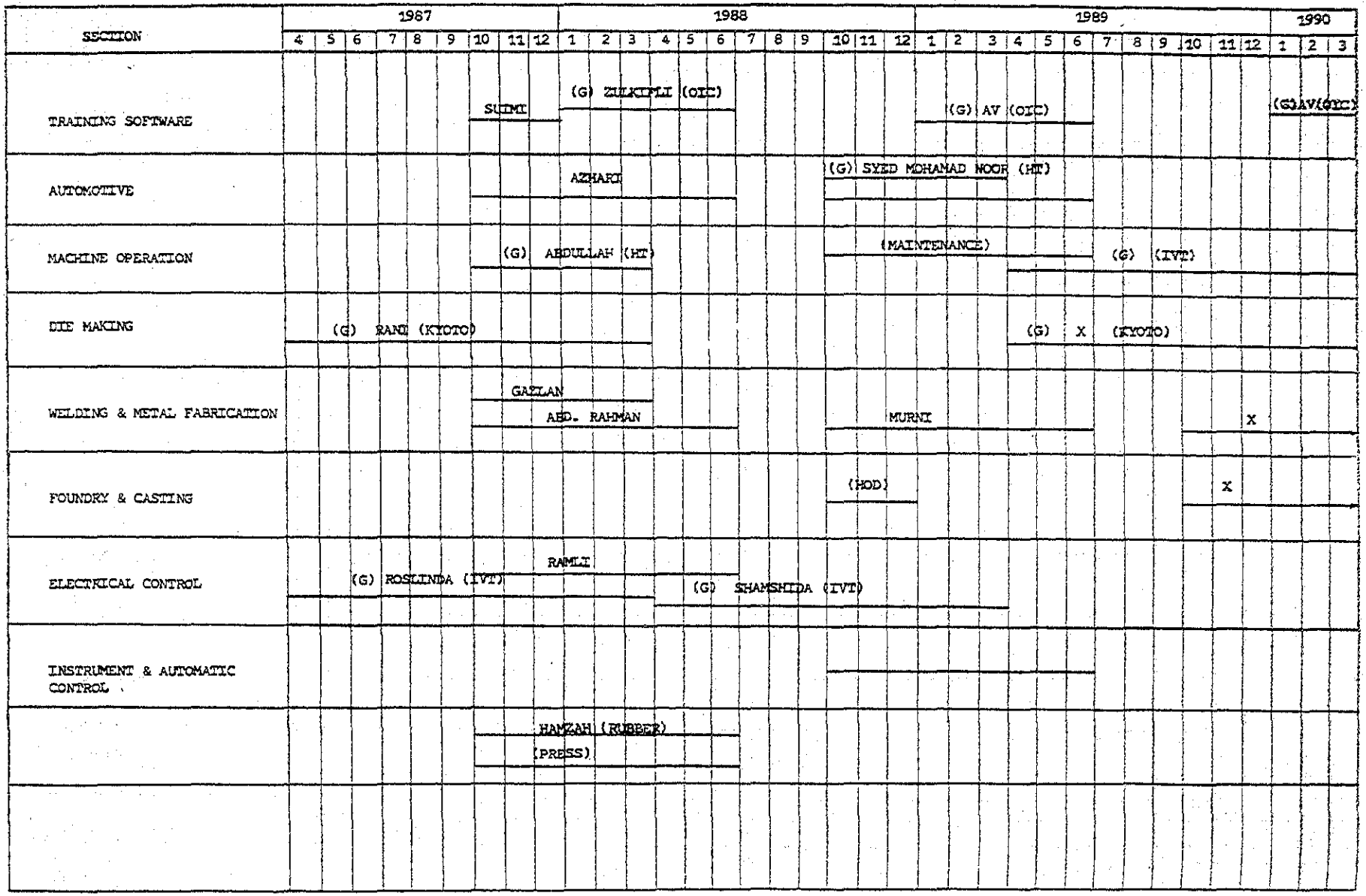
S T A-F F

Department : Instrument and Auto. Cont.

Section :

	1987									1988													1989													1990		
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
COUNTERPART																																				
H.O.D.ZAHIDIN B. A.SAMAD																																				
IBRAHIM BIN ALI																																				
AZHAR BIN MAT NOOR																																				
MOHAMAD BIN OSMAN		J										TM 1																								
To be added :																																				
Diploma (X)																																				
Experience (Y)																								J									TM1			
EXPERT																																				
Longterm																																				
Shortterm A( )																																				
B( )																																				

PLAN OF C.P. TRAINING IN JAPAN (OCT. 16, 1986)



AGENDA: 4

ASEAN PARTICIPANTS

ASEAN PARTICIPANTS

Two courses will be introduced to the Asean participant in July 1987 namely CONTACT CIRCUIT RELAY MAINTENANCE AND REPAIR (E.E. 1.1) and FUEL INJECTION SYSTEM SERVICES (A.1.2), with a capacity of 12 places respectively. All the Asean participants are expected to be sponsored by the Japanese Government. The Centre has planned to offer more courses in future, if response to the courses is encouraging.

AGENDA: 5

OTHER MATTERS

5. OTHER MATTERS

i) Utilization and maintenance of major equipment

The arrival and installation of the machines and equipment in the Centre can be divided into 2 phases, i.e. Phase I and Phase II.

Phase I started in March 1984 till April 1984, while Phase II begins in January, 1985 till March 1985. Up to now, most of the machines and equipment are being utilized for trainings, except for a few, that are yet to be used in the coming courses.(Please see Annex 7)

ii) Proposal of related equipment for module redevelopment

In order to redevelop the module, new related equipment are needed by the Centre. The Centre has thus identified the related equipment as per Annex: 8.

iii) Proposal of training administration to be covered under the second phase of the Technical Cooperation.

In response to the rapid growth of the Centre, the training administration being the focal point, needs to be improved to meet the Industrial relation, course redevelopment, staff redevelopment, participant evaluation and certification requirement.

The proposal includes the following:-

(a) to despatch an Adviser to assist Counterparts in the management of Training Administration.

(b) to train its administration personnels in the field of Training Administration

(c) to provide micro computer and its system for the recruitment of participants and related control system.

ANNEX '7'

LIST OF MACHINERIES AND EQUIPMENT
(UTILIZATION FREQUENCY AND CONDITION)

Department	Quantity	Utilisation Frequency			Condition		
		A	B	C	A	B	C
1) Instructor and Supervisory	173	55	56	62	130	42	1
2) Automotive	23	21	1	1	23	0	0
3) Machine Operation And Die-Making	94	63	31		91	2	1
4) Fabrication	76	61	15		76	0	0
5) Heavyshop	88	82	3	3	85	3	
6) Electrical And Electronic	148	55	48	45	146	2	0
7) Instrument And Automatic Control	125	122	3		124		1
T O T A L :	727	459	157	111	675	49	3

LIST OF MACHINERIES & EQUIPMENT

PSYCHOLOGICAL & EXPERIMENT & WORK STUDY.

DEPT: INSTRUCTOR AND SURERVISORY TRAINING SECTON:

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	MIRROR DRAWING INSTRUMENT	1		✓		✓			3/84	4/84
2.	PURSUIT TESTER	1		✓		✓			3/84	4/84
3.	COORDINATION TESTER	1		✓		✓			3/84	4/84
4.	MICRO COMPUTER	1		✓		✓			3/84	4/84
5.	OCCUPATION APTITUTE TEST SET	2	✓			✓			3/84	4/84
6.	ROTARY SHUTTER CAMERA	1		✓		✓			3/84	4/84
7.	(MONITOR TV) MOTION ANALYZER	1		✓		✓			3/84	4/84
8.	VTR (NTSC BETAMAX)	1	✓			✓			3/84	4/84
9.	VIDEO DIGITAL TIMER	1	✓			✓			3/84	4/84
10.	CHRONOCYCLEGRAPH	1		✓		✓			3/84	4/84
11	FLICKER TESTER	1	✓			✓			3/84	4/84
12	DIGITAL STOPWATCH	1		✓		✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR & SUPERVISORY TRAINING SECTON: AUDIO VISUAL AID

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	REMOTE CONTROL BOX	1	✓			✓			3/84	4/84
2.	CONTROL DESK UNIT	1	✓			✓			3/84	4/84
3.	16 mm PROJECTOR	1	✓			✓			3/84	4/84
4.	SLIDE PROJECTOR	1	✓			✓			3/84	4/84
5.	AUDIO RACK UNIT	1	✓			✓			3/84	4/84
6.	VIDEO PROJECTOR	2	✓			✓			3/84	3/84
7.	DATA VIEWER	1		✓		✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR AND SUPERVISORY TRAINING SECTON: AUDIO VISUAL AID

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	COLOUR CAMERA	2	✓				✓		3/84	4/84
2.	TRIPOL	2	✓			✓			3/84	4/84
3.	AV CONTROL CONSOLE UNIT	1	✓			✓			3/84	4/84
4.	SLIDE CONSOLE UNIT	1	✓			✓			3/84	4/84
5.	TELOP SYSTEM	1	✓			✓			3/84	4/84
6.	EDITING VTR	1	✓			✓			3/84	4/84
7.	EDITING CONTROLLER	1	✓			✓			3/84	4/84
8.	EDITING CONSOLE	1	✓			✓			3/84	4/84
9.	STUDIO MONITOR TV	1	✓			✓			3/84	4/84
10.	PORTABLE VTR.	1	✓			✓			3/84	4/84
11.	VTR DUBBING SYSTEM	1	✓			✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR AND SUPERVISORY TRAINING SECTON: AUDIO VISUAL AID

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	OVERHEAD PROJECTOR	9	✓				✓		3/84	4/84
2.	T/P PRODUCE MACHINE	2	✓				✓		3/84	4/84
3.	SLIDE PROJECTOR (CABIN)	1	✓			✓			3/84	4/84
4.	SLIDE PROJECTOR (ELMO)	1	✓			✓			3/84	4/84
5.	SLIDE CASSETTER (Missing)	1	✓						3/84	4/84
6.	8 mm CAMERA	1		✓		✓			3/84	4/84
7.	8 mm PROJECTOR	1		✓		✓			3/84	4/84
8.	½" VHS VTR (PORTABLE)	2	✓			✓			3/84	4/84
9.	COLOUR VIDEO CAMERA (VHS)	2	✓				✓		3/84	4/84
10.	½" VHS VTR (PORTABLE)	2	✓				✓		3/84	4/84
11.	14" COLOUR TV	4	✓			✓			3/84	4/84
12.	CASSETTE RECORDER	2	✓			✓			3/84	4/84
13.	35 mm CAMERA	1	✓			✓			3/84	4/84
14.	ELECTRONIC STROBO	1	✓			✓			3/84	4/84
15.	ENLARGER	1	✓			✓			3/84	4/84
16.	DRYER	1	✓			✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY
A = OFTEN
B = SELDOM
C = NIL

CONDITION
A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR AND SUPERVISORY TRAINING SECTON: LANGUAGE LAB.

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	MASTER CONSOLE UNIT	1			✓	✓			3/84	4/84 (no courses yet)
2.	MASTER TAPE-RECORDER	2			✓	✓			3/84	4/84 (no courses yet)
3.	VEDIO TAPE RECORDER (VHS)	1			✓	✓			3/84	4/84 (no courses yet)
4.	VTR/TV CONSOLE BOX	1			✓	✓			3/84	4/84 (no courses yet)
5.	MONITOR TV	2			✓	✓			3/84	4/84 (no courses yet)
6.	TV STAND	2			✓	✓			3/84	4/84 (no courses yet)
7.	BOOTH CONSOLE	10			✓	✓			3/84	4/84 (no courses yet)
8.	BOOTH TAPE-RECORDER	20			✓	✓			3/84	4/84 (no courses yet)
9.	HEAD SET	21			✓	✓			3/84	4/84 (no courses yet)
10.	ROOM SPEAKER	1			✓	✓			3/84	4/84 (no courses yet)

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR AND SUPERVISORY TRAINING SECTON: PEDAGOGY WORKSHOP

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	ELECTRIC CIRCULAR SAW	1		✓		✓			3/84	4/84
2.	ELECTRIC JIG SAW	1		✓		✓			3/84	4/84
3.	ELECTRIC DRILL	1		✓		✓			3/84	4/84
4.	ELECTRIC HAND PLANNER	1		✓		✓			3/84	4/84
5.	ELECTRIC FRET SAW	1		✓		✓			3/84	4/84
6.	ELECTRIC GRINDER	1		✓		✓			3/84	4/84
7.	BENCH DRILLING MACHINE	1		✓		✓			3/84	4/84
8.	BENDING HEATER FOR POLYACRYL	2		✓		✓			3/84	4/84
9.	NT CUTTER	5		✓		✓			3/84	4/84
10.	OLFA CUTTER	5		✓		✓			3/84	4/84
11.	HEAT CUTTER	1		✓		✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDON
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: INSTRUCTOR AND SUPERVISORY TRAINING SECTON: DRAFTING

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	BLUE PRINT ~~COPYING~~ MACHINE	1			✓			✓	3/84	4/84
2.	DRAWING EQUIPMENT	25		✓			✓		3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
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CONDITION

A = GOOD
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LIST OF MACHINERIES & EQUIPMENT

(BY GRAND AID)

DEPT: Automotive SECTON: _____

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	BRAKE TESTER	1	✓			✓			3/84	4/84
2.	CHASSIS DYNAMOMETER	1	✓			✓			3/84	4/84
3.	SIDE SLIP TESTER	1	✓			✓			3/84	4/84
4.	EXHAUST GAS ANALYZER	2	✓			✓			3/84	4/84
5.	INJECTION PUMP TEST BEND	1	✓			✓			3/84	4/84
6.	CYLINDER BORING MACHINE	1	✓			✓			3/84	4/84
7.	CYLINDER HONING MACHINE	1	✓			✓			3/84	4/84
8.	SURFACE GRINDER	1	✓			✓			3/84	4/84
9.	ENGINE DYNAMOMETER	1	✓			✓			3/84	4/84
10.	GENERATOR STARTER TEST TEST BENCH	1	✓			✓			3/84	4/84
11.	DISTRIBUTOR TEST BENCH	1	✓			✓			3/84	4/84
12.	WHEEL ALIGNMENT INDICATOR	1	✓			✓			3/84	4/84
13.	AUTO LIFT	3	✓			✓			3/84	4/84
14.	STATION WAGON	1	✓			✓			3/84	4/84
15.	MICRO BUS	1	✓			✓			3/84	4/84
16.	BODY & FRAME REPAIR SYSTEM	1	✓			✓			3/84	4/84
17.	SHEARING MACHINE	1	✓			✓			3/84	4/84
18.	HAND UNIVERSAL BENDER	1	✓			✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
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CONDITION

A = GOOD
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LIST OF MACHINERIES & EQUIPMENT

(BY GRAND AID)

DEPT: Automotive SECTON: _____

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19	PAINTING BOOTH	1		✓		✓			3/84	4/84
20	AIR COMPRESSOR SYSTEM	1	✓			✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION AND DIE MAKING SECTON: MACHINE OPERATION AND DIE MAKING

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	WASINO PRECISION LATHE	10	✓			✓			1/85	3/85
2.	MILLING MACHINE	6	✓			✓			1/85	3/85
3.	JIG BORING MACHINE	1	✓			✓			1/85	3/85
4.	BENCH DRILLING PRESS	1	✓			✓			1/85	3/85
5.	UPRIGHT DRILLING MACHINE	1	✓			✓			1/85	3/85
6.	SHAPING MACHINE	1	✓			✓			1/85	3/85
7.	SLOTTING MACHINE	1		✓		✓			1/85	3/85
8.	AUTOMATIC COPY MILLING	1	✓			✓			1/85	3/85
9.	CNC LATHE	1	✓			✓			1/85	3/85
10.	CNC MILLING	1	✓			✓			1/85	3/85
11.	CNC EDM	1	✓					✓	1/85	3/85
12.	CNC WIRECUT	1	✓			✓			1/85	3/85
13.	ENGRAVING MACHINE	1		✓		✓			1/85	3/85
14.	BAND SAWING MACHINE	1	✓			✓			1/85	3/85
15.	HACK SAWING MACHINE	1	✓			✓			1/85	3/85
16.	CYLINDRICAL GRINDING M/C	1	✓			✓			1/85	3/85
17.	SURFACE GRINDING M/C	1	✓			✓			1/85	3/85
18.	FORM GRINDING M/C	1		✓		✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION AND DIE MAKING

SECTON: MACHINE OPERATION AND DIE MAKING

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19.	BENCH GRINDER WITH DUST COLLECTOR	1	✓			✓			1/85	3/85
20.	UNIVERSAL TOOL GRINDER	1	✓			✓			1/85	3/85
21.	TUNGSTEN-CARBIDE BITE GRINDER	1	✓			✓			1/85	3/85
22	CENTRELESS GRINDER	1	✓			✓			1/85	3/85
23	AIR COMPRESSOR	1	✓			✓			1/85	3/85
24.	OPTICAL PROJECTION PROFILE GRINDER	1		✓		✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
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C = NIL

CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION AND DIE MAKING SECTON: HEAT TREATMENT

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	AIR HAMMER	2	✓			✓			1/85	3/85
2.	HEAVY OIL FURNACE	1	✓			✓			1/85	3/85
3.	TANK FOR HEAT-TREATMENT	1	✓			✓			1/85	3/85
4.	BAND SAW	1				✓			1/85	3/85
5.	BENCH DRILLING MACHINE	1	✓			✓			1/85	3/85
6.	BENCH GRINDER	1	✓			✓			1/85	3/85
7.	CLEANER TANK	1	✓			✓			1/85	3/85
8.	UNICASE ATMOSPHERIC FURNACE	1	✓			✓			1/85	3/85
9.	TEMPERING FURNACE	1	✓			✓			1/85	3/85
10.	OPTICAL PYROMETER	2	✓			✓			1/85	3/85
11.	METALURGICAL MICROSCOPE	2	✓			✓			1/85	3/85
12	ELECTRIC FURNACE	1	✓			✓			1/85	3/85
13	SALT BATH FURNACE	1	✓			✓			1/85	3/85
14.	AIR COMPRESSOR	1	✓			✓			1/85	3/85
15.	NUMBER PUNCHER DRILLER	1	✓			✓			1/85	3/85
16.	SPECIMAN DRYER	1	✓			✓			1/85	3/85
17.	METALLOGRAPHIC POLISHER	1	✓			✓			1/85	3/85
18.	HAND PRESS	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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C = NIL

CONDITION

A = GOOD
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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION & DIE MAKING SECTON: HEAT TREATMENT

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19	SPARK TEST MACHINE	1		✓		✓			1/85	3/85
20	HIGH SPEED GRINDING CUTTER	1	✓			✓			1/85	3/85
21	DESIOCATER	1	✓			✓			1/85	3/85
22	MEDICAL FREEZER	1	✓			✓			1/85	3/85
23	HARDNESS TESTER	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY
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CONDITION
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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION AND DIE MAKING SECTON: TEST CENTRE

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	FALLING BALL IMPACT TESTER	1		✓		✓			3/84	4/84
2.	ROCKWELL HARDNESS TESTER	2		✓		✓			3/84	4/84
3.	RUBBER HARDNESS TESTER	1	✓			✓			3/84	4/84
4.	PROFILE PROJECTOR	1		✓		✓			3/84	4/84
5.	SURFACE ROUGHNESS TESTER	1		✓		✓			3/84	4/84
6.	TOOL MAKERS MICROSCOPE	1	✓			✓			3/84	4/84
7.	DOUBLE FLANK GEAR ROLLING TESTER	1		✓			✓		3/84	4/84
8.	ROUNDNESS MEASURING MACHINE	1		✓		✓			3/84	4/84
9.	TENSILE STRENGTH TESTER	1		✓		✓			3/84	4/84
10.	UNIVERSAL SAND STRENGTH MACHINE	1		✓		✓			3/84	4/84
11.	TORSEE'S UNIVERSAL TESTING MACHINE	1		✓		✓			3/84	4/84
12	CHARPY'S IMPACT TESTING MACHINE	1		✓			✓		3/84	4/84
13	SAND WASHER	1		✓		✓			3/84	4/84
14	ROTAP SIEVE SHANKER	1		✓		✓			3/84	4/84
15	SAND RAMMER FOR SAND SPECIMEN	1		✓		✓			3/84	4/84
16	PERMEABILITY TESTER	1		✓		✓			3/84	4/84
17	MONITORING SYSTEM	1		✓		✓			3/84	4/84
18	YOKE TYPE MAGNETIC FLAW DETECTOR	1		✓		✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: MACHINE OPERATION AND DIE MAKING SECTON: TEST CENTRE

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19	VICKERS HARDNESS TESTER	1		✓		✓			3/84	4/84
20	BRINELL HARDNESS TESTER	1		✓		✓			3/84	4/84
21	MICRO VICKERS HARDNESS TESTER	1		✓		✓			3/84	4/84
22	ULTRASONIC FLAW DETECTOR	1	✓			✓			3/84	4/84
23	MAGNETIC FLAW DETECTOR	1		✓		✓			3/84	4/84
24	STANDARD MICRO STRUCTURE	1		✓		✓			3/84	4/84
25	METALLURGICAL MICROSCOPE	1		✓		✓			3/84	4/84
26	INDUSTRIAL X-RAY INSPECTION UNIT	1		✓		✓			3/84	4/84
27	SCHOPPER TYPE THICKNESS GAUGE	1		✓		✓			3/84	4/84
28	SPECIMEN PUNCHING MACHINE (CUTTER PRESS)	1	✓			✓			3/84	4/84
29	YOUNG TYPE GRAVITOMETER	1		✓		✓			3/84	4/84

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: FABRICATION

SECTON: WELDING/METAL FAB.

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	AC ARC WELDER	15	✓			✓			1/85	3/85
2.	TIG ARC WELDER	4	✓			✓			1/85	3/85
3.	PULSED-ARC MIG WELDER	2	✓			✓			1/85	3/85
4.	CO_2 AUTOMATIC WELDER	5	✓			✓			1/85	3/85
5.	SUBMERGED ARC WELDER	1		✓		✓			1/85	3/85
6.	ENGINE WELDER	1		✓		✓			1/85	3/85
7	PLASMA CUTTING MACHINE	1	✓			✓			1/85	3/85
8	PORTABLE FLAME CUTTING MACHINE	2	✓			✓			1/85	3/85
9	WELDING POSITIONER	1		✓		✓			1/85	3/85
10.	WELDING DRYER OVEN	1	✓			✓			1/85	3/85
11.	GAP SHEAR MACHINE (SHS 13 x 205)	1	✓			✓			1/85	3/85
12.	BENCH DRILLING PRESS	3		✓		✓			1/85	3/85
13.	BENCH GRINDER	3	✓			✓			1/85	3/85
14.	HIGH-SPEED CUT-OFF MACHINE	1	✓			✓			1/85	3/85
15	AIR COMPRESSOR (GN-5)	1		✓		✓			1/85	3/85
16	O_2 CYLINDER MANIFOLD	10	✓			✓			1/85	3/85
17	C_2H_2 CYLINDER MANIFOLD	8	✓			✓			1/85	3/85
18	TRIPLE ROLLER MACHINE	1		✓		✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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C = NIL

CONDITION

A = GOOD
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LIST OF MACHINERIES & EQUIPMENT

DEPT: FABRICATION SECTON: WELDING/METAL FAB.

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19	HYDRAULIC PIPE BENDER	1		✓		✓			1/85	3/85
20	SHARP CUTTER	1		✓		✓			1/85	3/85
21	PIPE THREADING MACHINE	1		✓		✓			1/85	3/85
22	VIBRO-SHEAR	1		✓		✓			1/85	3/85
23	AUTOMATIC FLAME CUTTING MACHINE	1		✓		✓			1/85	3/85
24	HAND LEVER SHEAR	1		✓		✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY
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C = NIL

CONDITION
A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: FABRICATION SECTON: PRESS WORK

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	AIR COMPRESSOR (GH - 3)	1	✓			✓			1/85	3/85
2.	FORTABLE SPOT WELDER	1	✓			✓			1/85	3/85
3.	CONDENSER TYPE SPOT WELDER	1	✓			✓			1/85	3/85
4.	POWER PRESS (NCPP - 1075)	1	✓			✓			1/85	3/85
5.	HYDRAULIC PRESS	1	✓			✓			1/85	3/85
6.	PRESS BRAKE	1	✓			✓			1/85	3/85
7.	GAP SHEAR MACHINE (SHS - 6 x 205)	1	✓			✓			1/85	3/85
8.	FOOT SHEAR	1		✓		✓			1/85	3/85
9.	POWER PRESS (NCPP - 1055)	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
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CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: HEAVYSHOP SECTON: FOUNDRY

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	HIGH FREQUENCY INDUCTION FURNACE	1	✓			✓			1/85	3/85
2.	CRUCIBLE FURNACE	1	✓			✓			1/85	3/85
3.	MIX MULLER	1	✓			✓			1/85	3/85
4.	SAND BLENDER	1	✓			✓			1/85	3/85
5.	JOLT SQUEEZE MOULDING MACHINE	2	✓			✓			1/85	3/85
6.	SHOT BLAST	1	✓			✓			1/85	3/85
7.	SAND BLAST	1	✓			✓			1/85	3/85
8.	MOULD HARDNESS TESTER GHT	2	✓			✓			1/85	3/85
9.	MOULD HARDNESS TESTER DHT	2	✓			✓			1/85	3/85
10.	MOISTURE TESTER	1	✓			✓			1/85	3/85
11.	ELECTRIC DRYING OVEN	1	✓			✓			1/85	3/85
12.	AUTOMATIC BALANCE	2	✓			✓			3/85	3/85
13.	BENCH DRILLING PRESS	2	✓			✓			1/85	3/85
14.	BENCH GRINDER	2	✓			✓			1/85	3/85
15.	SHELL MOULD MACHINE	1	✓			✓			1/85	3/85
16.	VACUUM PUMP	1	✓			✓			1/85	3/85
17.	RAY THERMOMETER	1	✓			✓			1/85	3/85
18.	THERMOMETER	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR

LIST OF MACHINERIES & EQUIPMENT

DEPT: HEAVYSHOP SECTON: FOUNDRY

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
19.	THERMOCOUPLE PYROMETER	1	✓			✓			1/85	3/85
20.	DIGITAL THERMOMETER	1	✓			✓			1/85	3/85
21.	AIR COMPRESSOR	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: HEAVYSHOP SECTON: DIE CASTING

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	DIE CASTING MACHINE KDK P-20	1	✓			✓			1/85	3/85
2.	DIE CASTING MACHINE KDK 100 HT	1	✓			✓			1/85	3/85
3.	BELT SANDER	1	✓			✓			1/85	3/85
4.	FORKLIFT	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

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CONDITION

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LIST OF MACHINERIES & EQUIPMENT

DEPT: HEAVYSHOP SECTON: INVESTMENT CASTING

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	WAX INJECTION MACHINE	1	✓				✓		1/85	3/85
2.	WAX MELTING TANK	1	✓			✓			1/85	3/85
3.	WAX TEMPERING TANK	1	✓			✓			1/85	3/85
4.	HOT PLATE	1	✓			✓			1/85	3/85
5.	MELTING POT	1	✓			✓			1/85	3/85
6.	DIP SEAL TANK	1	✓			✓			1/85	3/85
7.	ROTATING SLURRY MIXING TANK	3	✓			✓			1/85	3/85
8.	FLUIDIZER BED	2	✓			✓			1/85	3/85
9.	AUTO-CLAVE FOR DE-WAXING	1	✓			✓			1/85	3/85
10.	BAKE-OUT FURNACE	1	✓			✓			1/85	3/85
11.	LADLE FURNACE	1	✓			✓			1/85	3/85
12.	CUTTING MACHINE	1	✓			✓			1/85	3/85
13.	BELT SANDER	1	✓			✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
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CONDITION

A = GOOD
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LIST OF MACHINERIES & EQUIPMENT

DEPT: HEAVYSHOP SECTON: RUBBER

	MACHINERIES & EQUIPMENT	QUANTITY	UTILISATION FREQUENCY			CONDITION			DATE OF	
			A	B	C	A	B	C	ARRIVAL	INSTALLATION
1.	HORIZONTAL RUBBER INJECTION MOULDING M/C	1	✓			✓			1/85	3/85
2.	VERTICLE RUBBER INJECTION MOULDING M/C	1	✓			✓			1/85	3/85
3.	BALE CUTTER	1			✓	✓			1/85	3/85
4.	RUBBER MIXING MILL	1	✓			✓			1/85	3/85
5.	YOUNG TYPE GRAVITOMETER	1	✓				✓		1/85	3/85
6.	CUTTER PRESS	1		✓			✓		1/85	3/85
7.	THICKNESS GAUGE 5mm ϕ	1	✓			✓			1/85	3/85
8.	COMPRESSION SET TESTER	1			✓	✓			1/85	3/85
9.	THICKNESS GAUGE 9.5 mm ϕ	1			✓	✓			1/85	3/85

KEYNOTE: TICK IN THE RELEVENT COLUMN

UTILISATION FREQUENCY

A = OFTEN
B = SELDOM
C = NIL

CONDITION

A = GOOD
B = FAIR
C = POOR