

L03APN

PRIME MINISTER

TRAINING PROVIDED BY THE ARMED SERVICES

The question of taking credit more widely for the training provided by the armed services came up in conversation some weeks ago. I asked for comments and a leisurely correspondence ensued.

The Department of Employment and MOD emphasised that the main purpose of training given by the armed services is for military purposes not for the spin-off for private industry. The Treasury are keener that we should take credit for it.

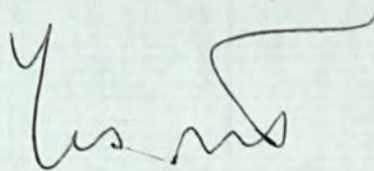
The figures provided by MOD, at Flags A and B, suggest that the wider economy gains substantially from training provided by the armed services.

An article, for example in the Department of Employment Gazette, would show the extent of training provided by the armed services. It could discuss among other things the effectiveness of military training in relation to the quality of the intake, and compare this with civil education and training.

Agree to ask MOD to consider an article, for example in the Department of Employment Gazette?

DRN

David Norgrove



18 November 1985

From: Mr Simon C Routh

cc BG



MINISTRY OF DEFENCE

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Minister of State for Defence Support

D/Min(DS)DGT 19/1/0

12 November 1985

David Norgrove Esq
Private Secretary
10 Downing Street
London
SW1

1 B1 for Monday
please

Dear David,

TRAINING

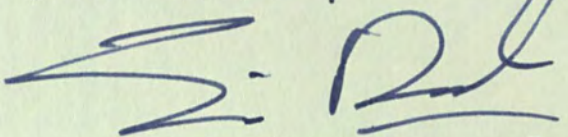
You copied to Richard Mottram your letter of 2 October to Leigh Lewis about the training given by the Armed Forces. I have also seen the replies of Christopher Snell and Paul Pegler. In the absence of our Secretary of State abroad, I have been asked to reply on Lord Trefgarne's behalf.

We do not provide the Department of Employment with any figures related to Regular Armed Forces training. We do, however, publish some relevant statistics in the Statement on the Defence Estimates (SDE). Table 2.3, The Functional Analysis of the Defence Budget, shows that in FY 1984/5 7.7% (£1,310M) of the Defence Budget was spent on training for the Armed Forces. Table 4.15 shows the outflow of trained Service personnel by major skill or trade groups and Table 6.10 shows selected qualifications obtained under ... Service sponsorship. Copies of these tables are attached. This can be used in conjunction with the Statistics of Education 1985 produced by the Department of Education and Science to show the number of Service personnel who have achieved nationally recognised academic qualifications against the total of the population at large. In addition, each of the Services has compiled a list of training undertaken by Service Personnel for specific skills from which the private sector is likely to benefit ... when they leave the Armed Forces. Copies of these are also attached. This information is not currently published by the Ministry of Defence.



I should like to emphasise the point made by Christopher Snell that the great bulk of training undertaken by the Ministry of Defence is carried out specifically to meet the requirement of the Armed Forces. We should be cautious, therefore, in seeking to claim credit for this Defence expenditure as "Government support for training", although the attached statistics demonstrate that we are making a useful contribution to training which will be of value to the private sector in due course.

... I am copying this letter to Christopher Snell and Paul Pegler.

Yours sincerely

Private Secretary

Functional analysis of the Defence budget¹

£ million

	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Total expenditure	8,558	10,785	12,274	14,091	15,973	17,033	18,059
Nuclear strategic force	126	165	269	327	382	384	509
Navy general purpose combat forces ²	1,131	1,461	1,663	1,861	2,149	2,493	2,505
Submarines	197	253	339	463	468	322	408
Aircraft and ASW carriers	23	23	26	71	140	94	78
Amphibious forces	36	44	52	52	60	78	81
Cruisers	89	98	95	—	—	—	—
Destroyers and frigates	418	537	594	636	722	691	738
Mine counter-measures vessels	50	75	90	150	159	137	145
Other vessels	159	206	210	204	285	466	452
Aircraft	108	158	175	198	242	312	291
Fleet headquarters	13	18	23	26	24	123	119
Overseas shore establishments	38	49	59	61	49	61	37
Naval bases and operational support	—	—	—	—	—	209	156
European theatre ground forces	1,496	1,746	1,881	2,194	2,445	2,626	2,764
British Army of the Rhine	1,079	1,227	1,302	1,512	1,700	1,796	1,899
Berlin ³	20	27	27	38	42	47	49
Home forces	397	492	552	644	703	783	816
Other Army combat forces	81	105	44	41	191	197	205
Mediterranean	50	64	56	62	62	68	81
Hong Kong and other Far East	17	19	-35	-36	1	-8	-27
South Atlantic	—	—	—	—	105	113	126
Other areas	14	22	23	15	23	24	25
Air Force general purpose forces	1,462	1,865	2,240	2,729	3,207	3,409	3,702
Air defence	145	199	287	453	579	702	730
Offensive support	63	68	76	83	118	116	202
Strike/attack/reconnaissance	458	620	785	1,005	922	775	817
Maritime aircraft	64	85	108	143	139	135	162
Transport aircraft	135	168	168	164	231	221	254
Tanker aircraft	26	32	43	42	128	200	135
Civil charter	11	13	14	18	17	30	37
Other aircraft	101	104	100	112	122	135	132
Operational stations	221	268	279	328	418	464	526
Headquarters	41	50	57	54	68	76	79
General support	197	258	323	327	465	555	628
Reserve and Auxiliary formations	148	213	253	287	312	357	360
Navy	8	14	12	14	15	16	14
Army	130	182	222	255	279	316	316
Air Force	10	17	19	18	18	25	30
Research and development ⁴	1,151	1,479	1,676	1,833	1,896	2,097	2,304
Ship construction and underwater warfare	149	209	298	287	328	390	424
Ordnance and other Army	92	120	150	164	177	182	188
Military aircraft	439	509	498	596	556	508	524
Guided weapons	124	183	223	235	245	314	362
Other electronics	163	231	259	284	282	340	397
Other research and development	184	227	248	267	308	363	409
Training	777	975	1,097	1,162	1,230	1,310	1,294
Service colleges	48	71	78	75	85	99	86
Navy	249	311	358	418	443	407	395
Army	312	377	429	420	428	527	538
Air Force	168	216	232	249	274	277	275
Repair and associated facilities in UK	590	705	814	869	1,040	931	917
Royal Dockyards	91	108	114	125	128	113	107
Other repair and maintenance	177	218	257	272	401	348	319
Storage and supply	247	289	337	357	403	359	394
Quality assurance	75	90	106	115	108	111	97
War and contingency stocks	160	224	326	403	410	549	535
Navy	56	73	94	110	161	204	206
Army	61	88	145	202	165	225	198
Air Force	43	63	87	91	84	120	131
Other support functions	1,481	1,820	2,081	2,307	2,631	2,811	2,998
Whitehall organisations	130	164	195	205	222	236	248
Local administration communications etc in UK	535	666	812	903	1,080	1,184	1,309
Meteorological services ⁴	29	36	34	37	34	41	44
Family and personnel services in UK	163	197	229	240	241	251	223
Service pensions	458	554	603	657	754	832	923
Other support services	166	203	208	265	300	267	251
Miscellaneous expenditure and receipts	-45	27	-70	78	80	-131	-34

1. The figures given in this table reflect the price levels of the original Estimates for the years in question.

2. Figures from 1984-85 are not fully comparable with those for earlier years. See notes on page 7.

3. Excluding expenditure covered by the Allied "Declaration on Berlin", estimated at £98.7 million in 1985-86.

4. Meteorological research and development is included under Meteorological services.

SERVICE PERSONNEL

4.15

Outflow of trained Service personnel: major skill or trade groups.

	Number					
	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84
Engineering	7,869	7,347	5,708	4,855	5,086	5,114
Mechanical	4,023	3,616	3,415	2,467	2,704	2,542
Electrical	2,856	2,997	1,742	1,956	1,835	1,976
Civil	990	734	551	432	547	596
Mechanical transport ¹	4,181	3,046	2,378	2,128	2,319	2,072
Communications ²	2,537	1,916	1,519	1,296	1,192	1,303
Catering	1,889	1,448	1,242	1,219	1,248	1,214
Accounting and secretarial	1,953	1,229	1,123	1,268	1,153	912
Supply and stores	1,576	1,250	900	978	1,061	1,063
Medical and dental ³	1,451	900	864	1,037	1,096	1,111
Aviation ⁴	1,313	1,199	754	836	950	979
Security and fire services	915	751	544	529	640	612
Education ⁵	272	184	144	156	199	238
Administration and personnel management ⁶	188	86	66	240	292	313

1. Comprising all personnel trained in the control and operation of wheeled and tracked vehicles.
2. Comprising all personnel trained in the control and operation of communications systems.
3. Comprising doctors, dentists, nurses and supporting staff.
4. Comprising flying and ground control personnel.
5. Including physical education instructors other than those with skills covered by other categories.
6. Including officers of the rank of Captain RN and above, and equivalent ranks in the other Services, not included in other categories.

6.10 Selected qualifications obtained under Service sponsorship

	Number					
	1978	1979	1980	1981	1982	1983
Degrees¹						
Postgraduate degrees	115	94	72	91	90	79
Royal Navy and Royal Marines	22	20	14	17	19	22
Army	74	62	51	53	48	39
Royal Air Force	19	12	7	21	23	18
Medical and dental degrees	126	118	101	126	87	90
Royal Navy and Royal Marines	22	29	21	23	32	17
Army	81	60	58	56	40	47
Royal Air Force	23	29	22	47	15	26
Other first degrees	376	397	349	365	413	445
Royal Navy and Royal Marines	130	125	123	135	142	165
Army	165	204	162	179	207	191
Royal Air Force	81	68	64	51	64	89
Higher National Certificate²	19	44	29	64	26	2
Royal Navy and Royal Marines	5	—	—	—	—	—
Army ³	14	44	29	64	26	2
Royal Air Force	—	—	—	—	—	—
Ordinary National Certificates²	444	247	134	7	7	—
Royal Navy and Royal Marines	232	123	—	—	—	—
Army ³	37	46	6	7	7	—
Royal Air Force	175	78	128	—	—	—
General Certificate of Education²						
Certificates awarded ⁴	3,023	2,930	3,416	3,484	3,060	3,667
Royal Navy and Royal Marines	1,183	1,248	1,224	1,558	1,428	1,859
Army	534	640	733	803	468	613
Royal Air Force	1,306	1,042	1,459	1,123	1,164	1,195
Advanced level passes	29	58	48	29	23	26
Royal Navy and Royal Marines	8	8	26	7	4	7
Army	4	32	8	12	11	5
Royal Air Force	17	18	14	10	8	14
Ordinary level passes ⁴	3,347	2,936	2,726	2,837	2,611	2,971
Royal Navy and Royal Marines	1,268	1,240	1,198	1,091	1,013	1,206
Army	600	511	461	506	300	435
Royal Air Force	1,479	1,185	1,067	1,240	1,298	1,330
City and Guilds of London Institute						
Operator certificates ²	1,503	604	819	288	258	161
Royal Navy and Royal Marines	1,058	202	661	2	8	3
Army	327	402	158	286	250	158
Royal Air Force	—	—	—	—	—	—
Craft certificates ²	3,336	5,231	2,911	7,486	6,524	9,794
Royal Navy and Royal Marines	172	737	570	2,194	2,767	3,675
Army ³	1,621	2,424	1,607	2,635	2,148	2,412
Royal Air Force	1,543	2,070	734	2,657	1,609	3,707
Technician certificates ²	883	1,025	374	283	211	104
Royal Navy and Royal Marines	159	46	—	4	—	—
Army	394	635	374	279	211	104
Royal Air Force	330	344	—	—	—	—
Technician Education Council						
Higher certificates/diplomas ²	5	15	60	178	328	658
Royal Navy and Royal Marines	—	—	—	—	168	340
Army	5	15	7	34	42	101
Royal Air Force	—	—	53	144	118	217
Certificates/diplomas ²	336	843	1,575	1,749	2,386	2,350
Royal Navy and Royal Marines	144	362	611	480	621	884
Army	—	—	139	195	584	463
Royal Air Force	192	481	825	1,074	1,181	1,003
Heavy Goods Vehicle driving test passes:						
total ⁵	9,322	9,046	16,151	13,964	11,726	11,804
Royal Navy and Royal Marines	44	41	131	30	175	295
Army	8,310	7,611	14,173	12,292	10,129	9,665
Royal Air Force	968	1,394	1,847	1,642	1,422	1,844

1. Includes degrees obtained by serving personnel and University Cadets at Universities and Service educational establishments.
2. Includes only candidates studying for and/or taking examinations directly through their Service.
3. Army figures shown for 1978 are minima: true figures may be higher.
4. Excluding Ordinary level passes gained in Advanced level examinations.
5. All heavy goods vehicle classes combined.

RN TRAINING

<u>READING</u>	<u>REMARKS</u>	<u>STUDENT INTAKE</u> <u>85/86</u>
<u>ACCOUNTANCY</u>		
ACMA	Training at Worthy Down	2
<u>TELECOMMUNICATIONS</u>		
TELECOMS OPERATOR		460
<u>ADP</u>		
MSc	MBCS-Training at RMCS Shrivenham	1
Advanced ADP Course	DEF ADP Training Centre at Blandford	16
<u>LEGAL</u>	Training taken at INNS of Court - No Naval Training	2
<u>DRIVING</u>		
DRIVERS	Course is in military context and covers cross country and wading	238
<u>CATERING/HOTEL SERVICES</u>		
MHCIMA		Less than 5 a year
LEADING COOK/CATERER	City & Guilds 706/1	150
LEADING COOK	City & Guilds 706/1	102
LEADING STEWARD	City & Guilds 707/1	Less than 5 a year
PETTY OFFICER	City & Guilds 717	30
STEWARD	NEBSS Certificate in Supervisory Management	40

<u>HEADING</u>	<u>REMARKS</u>	<u>STUDENT INTAKE</u> <u>85/86</u>
ADVANCED COOKERY	City & Guilds 706/3	Less than 5 a year
CATERING INSTRUCTORS	City & Guilds 730	6
STEWARD/CATERING INSTRUCTORS	HCITB CERTIFICATE	6
COOKS	Dept of Trade Certificate of Competency in Cooking at Sea	60
COOKS		38
BUTCHERS		2
<u>FLYING/AVIATION</u>		
PILOT TRAINING	Helicopter Fixed Wing Fast Jet	50 6
AIR TRAFFIC CONTROLLER		10
MET OBSERVER		15
<u>SURVEY RECORDER</u>	Hydrographic Specialisation	10
<u>DIVING</u>		
DIVERS		40
<u>CLERICAL/FINANCIAL SUPPORT</u>		
PETTY OFFICER	NEBSS Certificate in Supervisory Management	42
WRITER	Office Management RSA Typewriting Skills	123
CLERKS		160
<u>STORES ACCOUNTING</u>		
PETTY OFFICER STORES ACCOUNTANT	NEBSS - Certificate in Stores Supervisory Management	48
	RSA - Certificate in Stores Management	19

ARMY TRAINING

STUDENT INTAKE
85/86

1.	<u>LANGUAGE</u>	
	Russian	72
	Arabic	150
	German	72
2.	<u>ACCOUNTS</u>	
	Cost and Management Accountants	164
	Paymaster	33
	Accountants & Finance Officers	40
	Systems Analysis & Design	50
3.	<u>CATERING</u>	
	Food Technology	10
	Quartermaster and Provisioning	64
	Catering Management	370
	Messing Supervisory	200
	Mess Stewards	300
4.	<u>POLICE</u>	
	Provost Officers	20
	Investigation	190
	Close Protection	65
5.	<u>MEDICAL/VETINARY</u>	
	First Aid Instructors	560
	Medical Assistant	350
	Dental Hygienist/Technicians	190
	Environmental Health Assistant	35
	Dog Handler Specialist	48
	Equitation Instructor	12
6.	<u>PHYSICAL TRAINING/MUSIC</u>	
	PT Instructors	450
	Coaches - Swimming/Athletic	50
	Bandmasters	250
	Diving	180
7.	<u>FLYING TRAINING</u>	
	Army pilot - Fixed wing	88
	Army pilot - Rotary	136
8.	<u>PHOTOGRAPHY/SURVEY</u>	
	Air Photo Reading	84
	Navigation - Induction	56
	Survey, Cartographic/Photographic	50

STUDENT INTAKE
85/86

10. FLEET TRANSPORT/MANAGEMENT

Movements Control	94
Part Operating Officers	12
Driving and Maintenance Instructors,) Cars & HGVs)	Widespread

11. STOREKEEPING

Management, Equipment/Packaging	36
Storeman, Technical/Petroleum	76
Mechanical Handling Equipment	6

12. ADP

Appreciation, Senior Officers	90
Real Time Systems Design	96
Microprocessor	182
Systems/Network Analysis	124
Programming	407
ADP Security	24

13. TELECOMMUNICATIONS/SIGNALS/ELECTRONIC ENGINEERING

Signals Officer/Instructor	500
Telecomms Mechanic/Linesman	250
Electrical & Electronics Engineer including) Telecomms/Radar/Control Equip/Medical & Dental	675

14. ENGINEERING

Aircraft/Avionics	250
Vehicle Mechanic/Electrical	975
Instrument Technician	150
Clerk of Works, Elect/Mech/Construction	70
Trades - Electrician/Welder/Carpenter) Joiner/Painter & Decorator/Fitter/Plumber) Signwriter)	350
Plant Operator, Mechanic, Foreman	200
Civil Engineer	46
Design Draughtsman	18
Radiological & Laser Safety	25
Civil Engineering Degree	270
Applied Science Degree	70
Military Vehicle Technology	6

15. Management Functions

Management General/Engineering etc	330
Works Study	250
Equipment Procurement	90
Test Techniques & Training Validation	32
Safety Officer	50

<u>HEADING</u>	<u>REMARKS</u>	<u>STUDENT INTAKE</u> <u>85/86</u>
LEADING STORES ACCOUNTANT	RSA - Certificate in Storekeeping - (Intermediate)	41
STORES ACCOUNTANT	RSA - Certificate in Storekeeping - (Elementary)	97
 <u>PRINTING</u>		
PRINTERS		12
 <u>ENGINEERING</u>		
ENGINEERING OFFICERS	Trained in fields of marine, weapons (Electronic) and Air Engineering Disciplines. 60 will be graduates and will become chartered engineers. The remainder will achieve Technician Engineer status.	100
ARTIFICERS	Broadly split 20/40/40% in air, marine and weapons disciplines as Engineer Technicians.	300
 <u>PHOTOGRAPHY</u>		
PHOTOGRAPHIC RATING		10
 <u>TRADESMAN/CRAFTSMAN</u>		
MECHANICS	Split 48% ME, 31% WE, 21% AE	1500
CARPENTERS		9
METALSMITHS		1
GROOMS		3
 <u>INSTRUCTOR/ LECTURERS</u>		
METEOROLOGY AND OCEANOGRAPHY (METOC)		8
MANAGEMENT PRACTITIONER		1

<u>HEADING</u>	<u>REMARKS</u>	<u>STUDENT INTAKE</u> <u>85/86</u>
NUCLEAR ENGINEERING		2
HIGHER EDUCATIONAL COURSES	Eg - MSc Courses on various disciplines	8
<u>MEDICAL</u>	(Ex-Service personnel trained while in uniform)	
GENERAL PRACTITIONER	Vocational training	Between 5 & 8
SPECIALISTS IN OCCUPATIONAL/ HOSPITAL MEDICINE		1 or 2
MEDICAL TECHNICIANS	Inc Radiographers, Physiotherapists, Lab Technicians, Nurses	5
MEDICAL ASSISTANTS	With City & Guilds in emergency and clinical care	50
DENTAL HYGIENISTS	Ex-WRNS	5
DENTAL SURGERY ASSISTANTS	Ex-WRNS	5
REGISTERED GENERAL NURSE	QARNNS	17
ENROLLED NURSE	QARNNS	50

RAF TRAINING

1. AIRCREW

STUDENT INTAKE
85/86

Pilot Training	327
Navigator Training	170
Air Electronics Operator	85
Air Engineer	30
Air Loadmasters	45

2. ENGINEERING

a. AIRCRAFT ENGINEERING

Basic Aerosystems Engineering	80
Aircraft Mechanic (embracing all specialisations)	816
Aircraft Technician (embracing all specialisations)	272
Apprentice Engineering Technician	36

b. ELECTRONIC ENGINEERING - AIR

Flight Simulator Operators	10
Apprentice Electronic Eng Technician	144
Advanced Systems Engineering	14
Basic Communications Electronics Course	40
Electronic Technician (embracing all specialisations)	684
Electronic and Instrument Engineer	12

c. ELECTRONIC ENGINEERING - GROUND

Radio Technician	504
Electronic Mechanic (embracing all specialisations)	72
Electronic Technician (embracing all specialisations)	276

d. GENERAL GROUND ENGINEERING

General Mechanic (embracing all specialisations)	86
General Technician (embracing all specialisations)	56
Mechanical Engineer	12

3. COMMUNICATIONS

Telephonist	48
Telecommunications Operator (Basic) - Morse Code	80
Telecommunications Operator (TCO)	140
Special Telegraphist	72
Radio Operator Voice	30
Radio Operator Telegraphy	30

ADP

Data Analyst	70
Computer Security Course	12
Real Time Programming Course	132
Digital Techniques and Real Time Computing	228
Advanced Digital and Linear Techniques	36
Computer Fundamentals	6
Digital Techniques and Computer Fundamentals	108
ICL 4130 Computer Maintenance	16
5. <u>LANGUAGE TRAINING</u>	
French Colloquial	40
French Linguist	10
German Colloquial	110
German Linguist	15
Russian Interpreter	1
Russian Linguist	5
6. <u>CATERING</u>	
Steward	150
Cook	80
7. <u>TRANSPORT</u>	
MT Driver	400
MT Driving Examiner	12
MT Mechanic	96
MT HGV Driver	310
Crane Diver and Operator	80
8. <u>PHOTOGRAPHY</u>	
Air Photography Processor	72
Photographer (Ground)	45
9. <u>ADMINISTRATION</u>	
Clerical	255
Accounting	20
Typing	280
10. <u>MISCELLANEOUS</u>	
Assistant Air Traffic Controller	160
Joint Air Traffic Controller	140
Painter and Finisher	36
RAF/WRAF Police	588
RAF Police Dog Handler	48
Fireman	130
Statistics Analyst	30
Carpenter	10

MANPOWER: Special Employment Measures: Pt 13

