

TECHNICAL



Major, R.E.M.E.,
DIRECTOR & OFFICER COMMANDING,
Instrument Mechanics Training Centre

INSTRUMENT MECHANICS

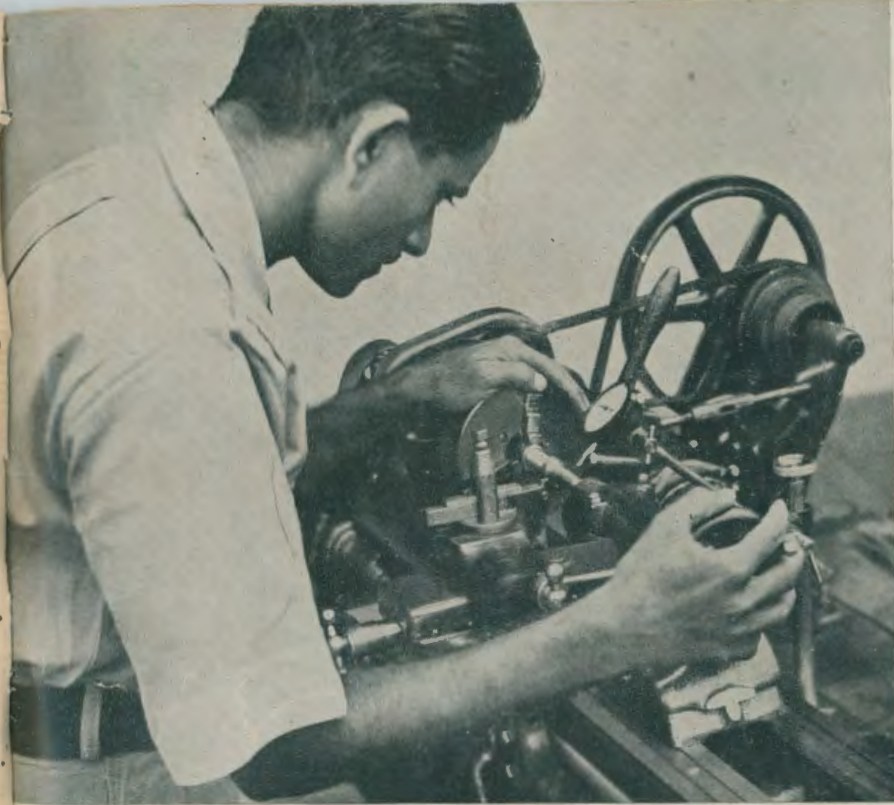
Technical skill, both in quality and quantity, determines the speed of the industrial growth of a country. One of the main factors behind the slow industrial progress of India has been the lack of qualified technicians. The war, by placing additional demands on Indian industry, has made her more keenly sensible to this handicap. And to meet the urgent needs of the Defence Services no less than to create an army of skilled workers, which would help India build up her industry both during and after the war, the Government of India initiated in 1940 a Technical Training Scheme for training Indian youth in various engineering and building trades.

The Instrument Mechanics' Training Centre, Hindupur, holds an important place in the Technical Training Scheme. This centre offers a comprehensive course of training for Instrument Mechanics under the expert guidance of officers and Instrument Artificers of the R.E.M.E. who have many years' practical experience in the best Instrument Shops of Great Britain. The centre is equipped with up-to-date machinery. It has a modern hostel with well-furnished reading and recreation rooms, an out-door gymnasium and spacious playgrounds.

To the intelligent youth sharing that instinct common to all mankind to use his hands and brain, the art and craft of instrument making, with its precision lathes, drilling and milling machines, its delicate hand-tools and measuring instruments, offer an occupation which affords boundless scope for initiative. The trade of Instrument Mechanic is wholly absorbing intellectually and gives monetary return to those who follow it, comparable with the best that industry has to offer.

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20-102



AN INSTRUMENT MECHANIC

An Instrument Mechanic is one of the most highly skilled workers in modern industry. It is he who manufactures, tests and repairs scales which can weigh a tiny atom, microscopes which lay bare the secrets of an invisible world, precision instruments both electrical and mechanical which can measure a component to even less than one-thousandth part of an inch, and clocks and meters from which the minutest possible differences are ascertainable. In a word, the Instrument Mechanic is the "magic eye" of industry. It is a job which is interesting, clean and well-paid and which in peace-time can only be mastered after several years of costly apprenticeship.

Defence Services, every service instrument has its counterpart in civil life and a technician once having qualified at the Instrument Mechanics' Training Centre, should not have the slightest difficulty in adapting himself to meet the needs of civil industry. His contribution to the development of India's industry will be immense when he turns, after discharging the responsibilities of the war, to the responsibilities of peace.

THE DAY BEGINS

At the Instrument Mechanics' Training Centre, Hindupur, the Trainees' day begins with sunrise. After a nourishing breakfast in the modestly but comfortably furnished dining room, he is ready for the day's work. At 7 o'clock smartly turned out in uniform and forage cap, he strides out for a brisk spell of P.T. and drill. This helps to clear the cobwebs from his brain and leaves him full of pep and vigour. Moreover, parades and drills inculcate in him the spirit of discipline and co-operation which will stand him in good stead throughout his career.

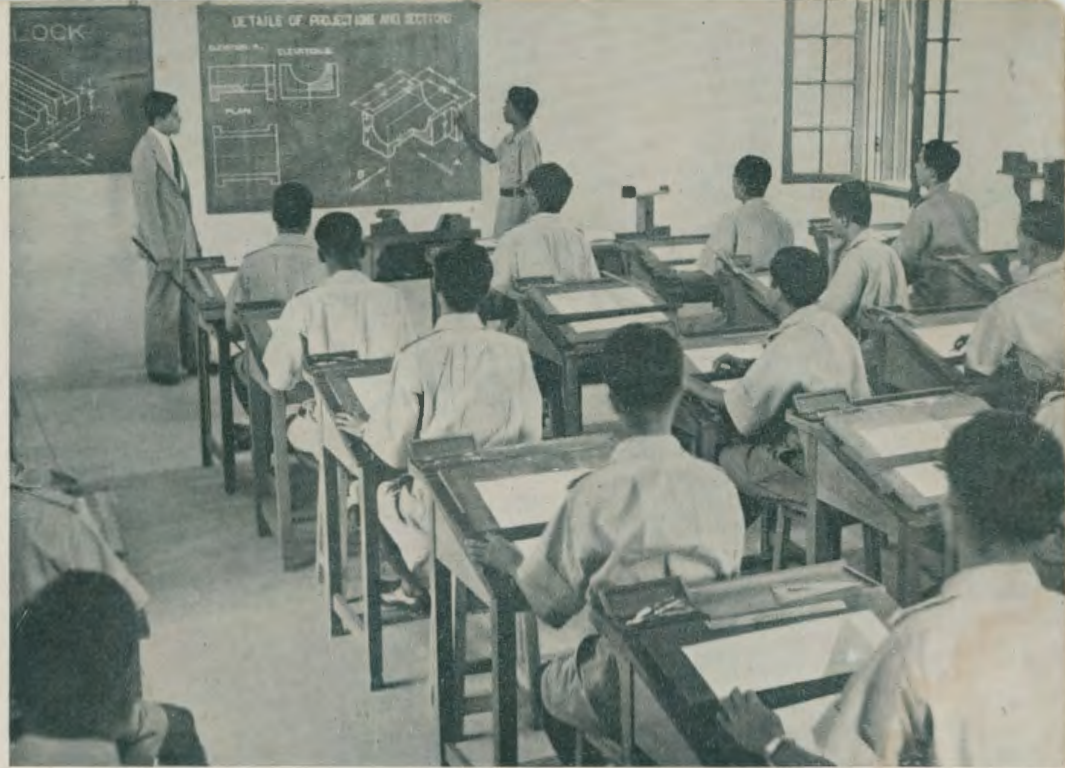
A short rest and.....

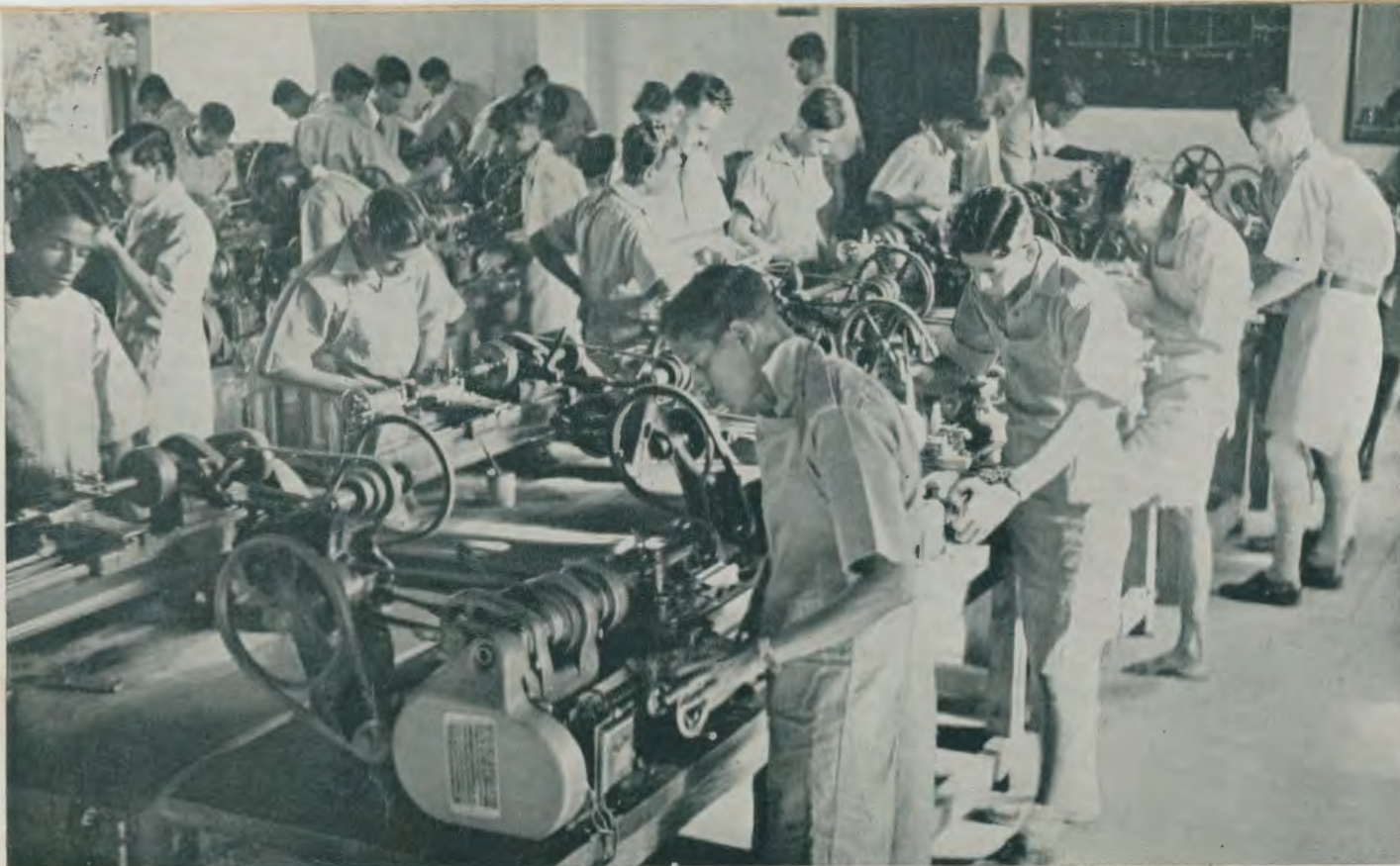




he finds himself in the class-room. His theoretical training, among other subjects includes reading and preparing machine drawings, elementary trigonometry, theory of electricity and telephony and geometrical optics.

After the morning instruction the bell rings for recess and the trainee retires for a wholesome lunch.





The Instrument Mechanic is nothing, if not a practical man, and a good part of his day's work consists of training in the workshop where he learns to use hand-tools with dexterity, goes through fitting exercises which include working on mild and cast steels, brass, gunmetal, ebonite and fibre.

He also learns the intricacies of range-finders and working of directors and other apparatus under the supervision of competent Armament Artificers. The routine is often varied to include courses in instrument adjustment and repairs, precision lathe work, the use of precision measuring instruments such as sine-bar and micrometer. Throughout this training great attention is paid to accuracy in hand and machine work.





Five o'clock brings the day's work to a close, and unless the trainee happens to be a backward student, in which case facilities for special classes are offered, he spends the rest of the evening in healthful recreation and sports. Membership of the I.M.T.C. Sports Club is open to all and the trainee has ample opportunities to play Hockey, Cricket, Football, Volley-ball and Badminton.



Games which will
make him sound
of mind and limb
give him sure-
ness of eye and
self-confidence.

After the games he
turns in to enjoy
a well-earned rest.



A GREAT OPPORTUNITY

This training, which in any other country would entail years of costly apprenticeship, can be obtained by the youth of our country without incurring any expense whatever. In fact a trainee earns while he learns. From the day the trainee is selected and enrolled he receives, while under training, pay, allowances and concessions at the following rates :—

Pay and allowances:

Basic pay	..	..	..	..	..	..	..	..	Rs. 18—0 p.m.
Trade pay at 1-6-0 per diem	..	..	..	..	..	..	..	..	Rs. 41—4 p.m.
Total ..									Rs. 59—4 p.m.

Concessions:

Free rations.

Free accommodation, water and lighting.

Free clothing W/shop shorts, shirts, socks, shoes, blankets.
mosquito net and poles.

Free hospital and medical treatment.

Free hair-cutting and washing facilities or Rs. 0-10-0 p.m. in lieu.

Also Leave and Railway concessions.



On completion of the training and having passed the prescribed trade test, trainees are classified as Instrument Mechanics, Grade III, and those who obtain sufficiently high marks in the test, become Instrument Mechanics, Grade II. They are then posted to an Army Training Centre or to a Unit where the rates of pay and allowances for the various grades are as given below :—

	GRADE III		GRADE II		GRADE I.	
Basic pay	Rs. 18/-	p.m.	Rs. 18/-	p.m.	Rs. 18/-	p.m.
Trade Pay	Rs. 45/-	„	Rs. 57/3	„	Rs. 76/14	„
Total ..	Rs. 63/-	p.m.	Rs. 75/3	p.m.	Rs. 94/14	p.m.

In addition they are entitled to the following concessions :—

Accommodation, Fuel, Lighting and Water Free.

Rations Free.

Clothing Free.

Medical attendance and Hospital treatment Free.

Hair-cutting and washing facilities.

Leave and Railway concessions.

Proficiency pay Re. 1-0 p.m. after 6 months' service, Rs. 3-8 after one year's service.

Deferred pay (payable on discharge or on promotion to V.C.O. rank *provided* an individual has rendered a minimum of 4 years' service) Rs. 3-0 p.m.

Expatriation allowance (over-seas only) Rs. 7-0 p.m.

Batta (if authorised) Rs. 5-0 p.m.

Pensions or Gratuities under normal rules.

Promotions are also made from the ranks and an efficient technician can be selected for the grant of a Viceroy's Commission, where his basic pay can go up to Rs. 250 p.m.

QUALIFICATIONS FOR ADMISSION

Every British Indian subject or subject of an Indian State is eligible for enrolment as Instrument Mechanic provided :

- (i) he is between $17\frac{1}{2}$ and 41 years of age at the time of enrolment.
- (ii) he is healthy, and conforms to the following physical standards :

Height.	Weight.	Expanded Chest with 2" expansion
5'-0"	105 lbs.	32".

Vision—6/9, 6/12 with or without glasses (distant vision)

- (iii) he is a Matriculate, or, if a non-matriculate, can pass the army education test for Matriculation zone.

HOW TO APPLY

Fill in the enclosed application form and post it without affixing a postage stamp to the address of the Chairman of the National Service Labour Tribunal of your province or the Technical Recruiting Officer nearest to your home.

He will arrange for your interview and medical examination. If you are selected and found medically fit, you will be sent to Instrument Mechanics' Training Centre, Hindupur. A free railway pass will be issued to you for the journey.

GOVERNMENT OF INDIA, DEPARTMENT OF LABOUR

TECHNICAL TRAINING SCHEME

Application Form for Training as Instrument Mechanics.

(This application must be accompanied by two certificates of good character from respectable persons who are not related to the candidate)

1. Name
2. Father's name
3. Address
4. Nearest Railway Station.....
5. Nationality
6. Caste or religion
7. Date of birth.....
8. Educational qualifications (s) Have you passed Matric or equivalent examination ?.....
 - (b) Give name of school (s) and date of passing examinations.....
 - (c) If you are a non-Matric, state class, standard or form passed. When did you leave school ?.....
 - (d) Higher or other qualifications if any.....
9. Height ft. in. Weight lbs. Chest normal ins. Chest expanded. ins. Eyesight (L) (R)
10. Previous training (if any)
 - (a) In technical institutions
 - (b) In Industry
11. Name of present/last employer.....
12. Are you prepared to join immediately if selected ?.....
 1. I certify that the information given under items 1-12 is correct to the best of my knowledge and belief.
 2. If selected for training, I am prepared to enrol in the Army and I realise that after enrolment in the Indian Army, I am liable to be transferred from one technical branch to another.
 3. If called for interview, I agree to appear before the Selection Committee at my own expense.
 4. I enclose two certificates of good character (in original) from persons not related to me.

Dated the.....194

Signature.

If the applicant is already studying in a technical institute or employed in a workshop or factory, the following questions should be answered by the Principal or employer :—

(a) Character

(b) Abilities as an artisan.....

(c) Suitability for employment in any of the technical branches of the Defence Services or in war industry.....

.....

Principal
Employer.

Dated the.....194 .

Signature of sender.

The Chairman, National Service
Labour Tribunal
The Technical Recruiting Officer

SERVICE UNPAID

NATIONAL SERVICE LABOUR TRIBUNALS

Chairman, Bombay National Service
Labour Tribunal, Hassan Chambers,
Parsi Bazar Street, Fort, Bombay.

Chairman, Bengal National Service
Labour Tribunal, 77-B, Park Street,
Calcutta.

Chairman, Madras National Service
Labour Tribunal, (Also Coorg),
Sunder Mahal, Cathedral P.O., Madras.

Chairman, U.P. National Service Labour
Tribunal, Inverneal Bungalow,
4/253, Nawabganj Road, Cawnpore.

Chairman, Punjab and North-Western
Frontier Province National Service
Labour Tribunal, 4, Mozang Road,
Lahore.

Chairman, Sind National Service Labour
Tribunal, Randle Road, Karachi.

Chairman, C.P. & Berar National Service
Labour Tribunal, New Assembly
Members' Rest House, Nagpur.

Chairman, Bihar & Orissa National
Service Labour Tribunal, Bhattacharjee
Road (Off Exhibition Road), Patna.

Chairman, Assam National Service
Labour Tribunal, Office of the Con-
troller of Emigrant Labour, Shillong.

Chairman, Delhi and Ajmer-Merwara
National Service Labour Tribunal,
4, Flagstaff Road, Delhi.

TECHNICAL RECRUITING ORGANISATION

NORTHERN AREA

Recruiting Officers
Ambala, 101, The Mall.
Jullundur, Bungalow No. 1.
Lahore, 14, Abbot Road.
Peshawar, Cavagnary Road.
Rawalpindi, Gwyn Thomas Road.

EASTERN AREA

Technical Recruiting Officer,
Hazaratganj, Lucknow.
Deputy Technical Recruiting Officer,
37, Bisheshwarnath Road, Lucknow.
Assistant Technical Recruiting Officer,
No. 1, Lothian Road, Kashmere Gate,
Delhi.

Deputy Technical Recruiting Officer,
No. 7, St. George's Gate Road,
Hastings, Calcutta.

Deputy Technical Recruiting Officer,
Tan Bazar Road, Narayanganj.

Deputy Technical Recruiting Officer,
Exhibition Road, Patna.

Assistant Technical Recruiting Officer,
Secretariat Hill, Shillong (Assam).

Assistant Technical Recruiting Officer,
Dr. Nichol Road, Asansol.

Assistant Technical Recruiting Officer,
286, Western Kutchery Road, Meerut
(U.P.)

Assistant Technical Recruiting Officer,
Lodha Dharamshala, Station Road,
Ajmer.

Assistant Technical Recruiting Officer,
18, Canning Road, Allahabad (U.P.)

SOUTHERN AREA

Technical Recruiting Officer,
Cornwallis Barracks, Trinity Road,
Bangalore.

Deputy Technical Recruiting Officer,
Pudupet lines, Mount Road, P.O.
Madras.

Deputy Technical Recruiting Officer,
Trichy Road, Coimbatore.

Assistant Technical Recruiting Officer,
Madura Road, Trichinopoly.

Assistant Technical Recruiting Officer,
Bharat Building, Railway Station Road,
Trivandrum.

Assistant Technical Recruiting Officer,
"Sorab Manor," Bunder Road, Bezwada.

WESTERN AREA

Technical Recruiting Officer,
Staunton Road, Poona.

Deputy Technical Recruiting Officer,
Esplanade Maidan, Dhobi Talao,
Bombay No. 1.

Deputy Technical Recruiting Officer
Assembly Rest House, Nagpur.

Assistant Technical Recruiting Officer,
Panch Kuva,
Ahmedabad.

Assistant Technical Recruiting Officer,
Old Telegraph Office,
Bungalow No. 39, Belgaum.

Assistant Technical Recruiting Officer,
Military Barracks, Khandwa (C.P.)

