INDUSTRIAL EDUCATION

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649613106

Industrial Education by Sir Philip Magnus

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

SIR PHILIP MAGNUS

INDUSTRIAL EDUCATION

Trieste

INDUSTRIAL EDUCATION

BY

SIR PHILIP MAGNUS MEMBER OF THE LATE ROVAL COMMISSION ON TECHNICAL INSTRUCTION AUTHOR OF "LESSONS IN ELEMENTARY MECHANICS" ETC. LONDON KEGAN FAUL, TRENCH, & CO., 1 PATERNOSTER SQUARE 1828

Pi-les

ħ

PREFACE.

55

THE following Chapters contain the subject-matter of Articles and Addresses which have been written and delivered on different occasions during the past six years. Some of them have already appeared in the pages of the 'Contemporary Review' and of other publications. All of them, excepting the 'Inaugural Address at the opening of the Finsbury Technical College,' have been carefully revised and in part rewritten. They are now offered as a contribution to the study of the important problem : How to train our industrial population, so as to best fit them to engage in technical and commercial pursuits.

P. M.

ATHENAEUM CLUB: October 25, 1888.

5. 16

1). 1

3 N B

* ² • •

29 ¹⁸

55 55 13

λ.

CONTENTS.

CHAPTE	R PAGE
I.	EDUCATION IN RELATION TO THE NEEDS OF LIFE .
11.	TECHNICAL EDUCATION-ITS AIM AND SCOPE 20
ш.	MERCANTILE TRAINING-SCHOOLS OF COMMERCE . 45
IV.	TECHNICAL INSTRUCTION IN ELEMENTARY SCHOOLS 109
v.	THE ORGANISATION OF HIGHER ELEMENTARY OR
	MIDDLE TRADE SCHOOLS 16;
VI.	A FOREIGN INSTANCE OF SCHOOL SYSTEM-EDUCA-
	TION IN BAVARIA
VII.	THE FINSBURY TECHNICAL COLLEGE-INAUGURAL
VII.	THE FINSEURY TECHNICAL COLLEGE—INAUGURAL ADDRESS

17

INDUSTRIAL EDUCATION.

CHAPTER I.

EDUCATION IN RELATION TO THE NEEDS OF LIFE.

THE problem of industrial education is that of adapting education to the practical needs of life. These needs are various, and the term industrial education is employed with reference to the general and special training which is best adapted to that overwhelmingly large proportion of every community who are employed directly or indirectly in the production and distribution of saleable commodities. Such persons may be employed in agriculture, in engineering, in building, or in any other branch of constructive work, such as cabinet-making ; in designing ; in mercantile or banking business. The question, which of late years has been from different points of view very fully discussed, is, what relation, if any, should subsist between school teaching and the work of life?

It is usual to distinguish between the education that is preliminary to what, for want of a better term,

Industrial Education

2

may be called apprenticeship, and that which is carried on pari passu with the learning of a trade, or with specific reference to some industrial occupation. The former is the education given in our ordinary elementary and higher schools; the latter may be called 'professional instruction,' and is obtained in special schools and institutions. When people speak of 'technical education,' they generally mean specialised instruction ; but the demand for technical education has made us carefully consider whether the instruction given in our ordinary schools is the best preparation for it. And the consideration of this question suggests a previous one, whether it is necessary or desirable that the concerns of practical life should cast their shadow behind them, and influence the education given in ordinary schools. There are many persons who doubt the necessity of establishing any relation between school education and the practical business of life. They tell us that 'education' is a word derived from educo, and means a 'drawing out' of the faculties. It is training and nothing more. In the gymnasium a man does not exercise his muscles with the view to their use in boating, cricket, shooting, boxing, or riding, but for the development of his physical strength, confident that by such exercise he will be able to apply his powers to any purposes for which they may be required. In the same way, it is contended that mental training should consist of the development of