WORKSHOP PROCESSES AND MATERIALS I

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First published 1977 by
THE MACMILLAN PRESS LTD
London and Basingstoke
Associated companies in Delhi Dublin
Hong Kong Johannesburg Lagos Melbourne
New York Singapore and Tokyo

ISBN 978-0-333-21132-8 ISBN 978-1-349-03106-1 (eBook)
DOI 10.1007/978-1-349-03106-1

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Preface

This book is intended primarily for students taking the first-year examination of the Technician Education Council (TEC) in Workshop Processes and Materials I.

The format of the book is rather unusual. The first section deals with *safety*, a topic of vital importance in any syllabus. This is followed by a section on *materials*, comparing the properties of common engineering materials, including plastics. This part of the book also contains information on forming and joining plastics materials, as well as protective treatments for various metals. *Hand processes* and *machine tools* (which carry the bulk of the marks in the assessment specification) are dealt with separately.

Part Two of the book takes a different form, being divided into nineteen sections on *processes*; between them, these sections deal with most aspects of the recommendations of the Standard Unit, introducing the student to practical work at the earliest possible stage. The object is to create learning situations for the students, in which the lecturer can provide his own individual teaching.

Each of the processes has been carefully checked, and has been evolved and modified in a classroom/workshop situation. The *process notes* provide a general guide for the work to be undertaken, while the detailed instructions for carrying out the work for each process are written in the 'shorthand English' found in industry—students will find this realistic and easy to assimilate. Sections of the Standard Unit that do not lend themselves to a practical treatment are purposely omitted, enabling lecturers to deal with them in the classroom in their own way, providing variety in the students' work programme. Test questions have been provided after each process.