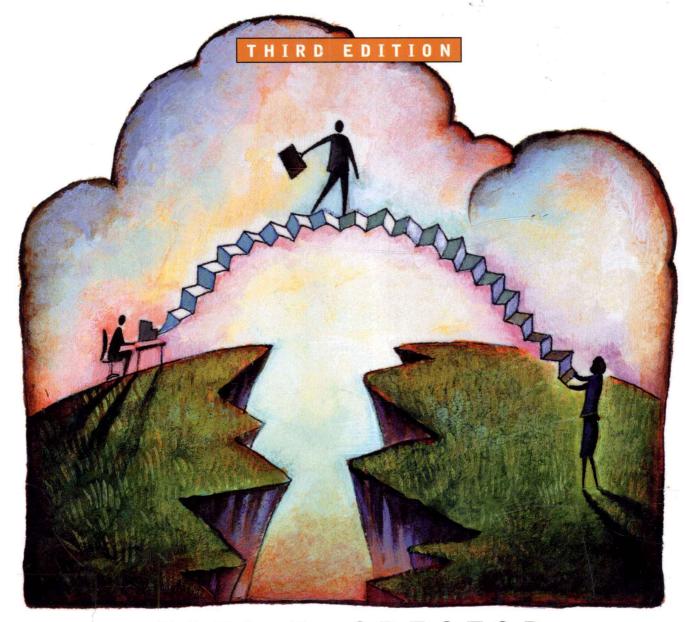
INDUSTRIAL ORGANIZATIONAL PSYCHOLOGY

RESEARCH AND PRACTICE



PAUL E. SPECTOR

3rd **Edition**

INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

Research and Practice

Paul E. Spector

Department of Psychology University of South Florida



John Wiley & Sons, Inc.

SENIOR ACQUISITIONS EDITOR
MARKETING MANAGER
SENIOR PRODUCTION EDITOR
COVER DESIGNER
COVER ART
ILLUSTRATION EDITOR

PHOTO EDITOR

Tim Vertovec Kevin Molloy Brienna Berger Madelyn Lesure @EyeWire/Getty Sandra Rigby Jennifer MacMillan

This book was set in 10/12 Berkeley by Hermitage Publishing Services and printed and bound by Donnelley/Crawfordsville. The cover was printed by Phoenix Color.

This book is printed on acid-free paper.

Copyright © 1996, 2000, 2003 John Wiley & Sons, Inc. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without either the prior written permission of the Publisher, or authorization through payment of the appropriate per-copy fee to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, fax (978) 750-4470. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748-6011, fax (201) 748-6008, E-Mail: PERMREQ@WILEY.COM.

To order books or for customer service please, call 1(800)-CALL-WILEY (225-5945).

ISBN 0-471-41564-2

Printed in the United States of America

10 9 8 7 6 5 4 3 2

PREFACE

Industrial/organizational, or I/O, psychology is an exciting field that has been enjoying tremendous growth in the United States and throughout the industrialized world, especially over the past two decades. What began as a tiny subspecialty of psychology, known only to a few practitioners and professors, has grown to be one of the major applied specialties in psychology worldwide. This attention is due to two factors. First, I/O is concerned with the workplace, so its findings and principles are relevant to everyone who has held a job. Second, I/O has developed proven methods that organizations find of value. I/O psychologists are often called upon to help organizations achieve a more efficient and healthier workforce.

The field of I/O psychology has a dual nature. First, it is the science of people at work. This aspect ties it to other areas of psychology, such as cognitive and social. Second, I/O psychology is the application of psychological principles of organizational and work settings. There is no other area of psychology in which a closer correspondence between application and science exists, making I/O a good example of how society can benefit from the study of psychology.

The field of I/O is a large and diverse one. It covers many topics ranging from methods of hiring employees to theories of how organizations work. It is concerned with helping organizations get the most from their employees or human resources, as well as with helping organizations take care of employee health and well-being. A single text can provide only an overview of the major findings and methods that I/O psychologists use. The goal of this book is to provide such an overview, as well as a comprehensive understanding of the field. The book addresses each of the major areas of I/O.

Part One of this book provides an overview of the I/O field. Chapter 1 covers the nature of the field and its history. I/O is discussed as both a practice and a science. The chapter describes what a career in I/O involves and what it takes to become an I/O psychologist. Chapter 2 provides an overview of the basic principles of I/O research methods.

The remainder of the book is divided into four major sections. In Part Two, Chapter 3 discusses job analysis or the assessment of jobs. Chapter 4 focuses on the assessment of employee job performance. Chapter 5 explores the way in which employee characteristics are measured. Part Three contains two chapters. Chapter 6 deals with the methods that organizations use to hire new employees. Chapter 7 follows those new as well as experienced employees through their training programs.

The four chapters in Part Four discuss the relationship between the individual and the organization. Chapter 8 covers theories of motivation. Chapter 9 focuses on how people feel about their jobs—their level of job satisfaction and commitment to the organization. The topic of Chapter 10 is productive and counterproductive work behavior. Chapter 11 deals with occupational health psychology, a rapidly emerging field that is concerned with workers' health, safety, and well-being.

The final part of the book, Part Five, is concerned with the social context of work. Chapter 12 explores small work groups or work teams and their effect on the individual. Chapter 13 discusses leadership and supervision in the workplace. Chapter 14, the last chapter, takes an organizational perspective, addressing organizational development and organizational theory.

SPECIAL FEATURES

Each chapter in Parts Two through Five contains three special features. First, there is a detailed summary of a research study from one of the major I/O journals. Each Research in Detail was chosen to give added insight through a study that is relevant to topics covered in the chapter. The implications of each study for the practice of I/O are also discussed. Second, there is a detailed summary of a research study conducted outside the United States. Most I/O research until relatively recently has been conducted within the United States and a handful of culturally similar western countries, such as Canada and England. These International Replications explore the extent to which U.S. research generalizes to other countries and cultures. Third, a case study describes how a practicing I/O psychologist was able to help an organization with a problem. These I/O Psychology in Practice cases were chosen to represent the wide variety of settings and applied work that involve I/O psychologists.

Each I/O Psychology in Practice case is followed by discussion questions. The purpose of these questions is to encourage students to think about the principles discussed in the book. They require the student to apply the chapter principles to a real situation. The questions can be used in a variety of ways. They can be assigned to groups of students or to individuals. They can be used for in-class debates, discussions, oral presentations, or written assignments. The cases themselves are provided to help show students the connections between practice and research in the I/O field. Students often have a difficult time seeing the relevance to their lives of much of what they study in college. I/O psychology is a field that is relevant to almost everyone.

CHANGES IN THE THIRD EDITION

My goal with all three editions has been to provide a text that is as current and up-to-date as possible, covering both the traditional core material of the field and the exciting new areas and findings. The first major task I had with this revision was to update the material with important new developments. The science of I/O psychology is rapidly changing with new findings and insights emerging almost daily. This edition contains more than 150 new references most of them published in 2000 or later. The overall organization of the book is similar to the organization of prior editions, although it contains several new subsections addressing new topics. There is one new special feature, International Replication. The other special features remain: Cases, (Psychology in Practice) chapter objectives, glossary, and Research in Detail. Four of the cases are new.

This revision was guided in part by trends (discussed at the end of Chapter 1) that are helping shape the I/O field:

Technology
Internationalization
Skilled Labor Shortages
Occupational Health Psychology

Technology has always been a major influence on I/O psychology because it is a major influence on the workplace. The field of I/O, originally called simply industrial psychology, grew out of the rapid industrialization of the United States in the early part of the twentieth century. The pace of technological change, however, has been accelerating, and in the twenty-first century we see these changes affecting the conduct of both the practice and the research of I/O psychology. The third edition of this book discusses how technology, particularly the Internet, has had a tremendous impact on I/O practice and covers some of the new research into how technology affects the workplace.

Although early development of I/O occurred primarily in the United States, in the twenty-first century I/O psychology is international in scope. Across the three editions of this book, Table 1-2 in Chapter 1, listing I/O graduate programs outside the United States, has continued to grow in length. Quite a few of the programs listed in the table didn't exist when the first edition was published, and growth in the number of international programs continues. The large U.S. I/O consulting firms, once limited to North America, are opening offices throughout the world. Two of the largest, Development Dimensions International, or DDI, and Personnel Decisions International, or PDI, changed the original meaning of the I in their names fom incorporated, as they expanded their scope beyond the United States. The third edition continues to emphasize international issues, as evidenced by new International Replication feature, as well as through expanded discussions of international issues.

One by-product of technology is that simple, unskilled labor is being replaced by skilled labor in developed, industrialized countries. Countries with strong economies, like the United States, are finding that people with needed skills are often in short supply. This situation challenges the I/O field to switch its focus from choosing which of many applicants to hire, to developing and retaining those employees already hired. To meet this challenge, that I/O practice will likely shift attention to some extent from issues of hiring to issues of training. The current edition of this book discusses performance management systems (Chapter 4) that reflect this trend.

During most of the twentieth century the major concern of I/O psychology was with employee performance and productivity and how they contributed to organizational well-being. Much of this focus was driven by the applied job market and the sorts of services organizations were willing to purchase from consultants or to hire psychologists to do. In recent years there has been rapidly advancing interest in the well-being of employees independent of their organizations. This trend can be seen in the new field of occupational health psychology (OHP), which is developing in large part out of I/O psychology. OHP is a multidisciplinary field that is concerned with the health, safety, and well-being of employees. These topics have been in this book since the first edition, but this edition provides more balance between issues of employee performance and employee well-being. Chapter 11 has been renamed Occupational Health Psychology.

Content Changes. Although all the topics covered in the first two editions are still here, some have been expanded or modified and some are new. Of particular note are the following:

New section on current trends that are changing the I/O field

Expanded discussion of internationalization of the field

Updated salary survey information

Expanded discussion of Occupational Information Network O*NET

New section on research uses of job analysis data

Expanded discussion of the judgment process underlying job analysis ratings

Expanded discussion of 360 feedback

New discussion of the impact of technology on performance appraisal

New discussion of performance management systems

New section on assessment of emotional intelligence

New discussion of Web-based assessment

Expanded discussion of the validity of biographical inventories

Expanded discussion of the effectiveness of different recruitment sources

Expanded discussion of Web-based recruitment, including Monster

New section on international differences in selection practices

New section on computerized and Web-based training (e-learning)

New section on mentoring

Expanded discussion of German action theory

Expanded discussion of justice

Expanded discussion on international differences in job satisfaction

New section on emotional labor

Expanded section on work/family conflict to include family-friendly policies

Revised section on computer-human interaction

New discussion of telework

New discussion of computer-supported cooperative work

Completely rewritten section on counterproductive work behavior

New discussion of workplace bullying and mobbing

Chapter on safety and health renamed Occupational Health Psychology

Expanded discussion of accidents and safety culture

New section on social stressors, such as interpersonal conflict

New section on team commitment

New section on team mental models

New discussion of virtual teams

Expanded discussion of sexual harassment

New discussion of ethnic harassment

Expanded discussion on transformational leadership

New discussion of factors affecting acceptance of organizational change

Textbook Internet Support Site (www.wiley.com/college/spector). One of the biggest problems with textbooks is that much of their information is quickly outdated or time sensitive. It isn't feasible for publishers to update more often than the three-to-five-year revision

cycle of most upper-level texts. The Internet, however, provides a means of doing just that. The book's website continues to be a resource for both instructors and students that supports this textbook. The *Industrial and Organizational Psychology: Research and Practice* section will contain updated information as well as other supplemental features. Additionally, an Instructors Manual with Testbank is available to instructors at this site.

I teach an introductory I/O course and will keep a copy of my own notes and overheads on the site. Some of the overheads are outlines of my lectures; others provide additional information, such as lists or tables. Although my course tends to follow the text (or more correctly, the text follows my course), there is supplemental information here. I often bring in material not covered in the book or present the book's material in a somewhat different way. All of these notes and overheads can be downloaded and modified or printed for the instructor's own use. The text files are in HTML format, and the graphics files are in jpg format. As updated information becomes available, for example, a new I/O salary survey, it will be put here. A date at the bottom of every document will show the last time it was updated.

I have also included some Internet exercises that are tied to particular topics. There is at least one exercise per chapter. All require the student to find information on one or more Internet sites and either answer questions or write a report. These exercises can be used in a variety of ways, including as the basis for in-class discussions. Most exercises are tied to particular portions of the text and make use of the links on my site. Finally, there are a links to the employer and/or the organization in which each case was conducted. Students can use these links to find more background information that can help put the case in context.

Students tell me that the most useful feature in the book is the practice exams for each chapter. These contain short-answer questions that do not overlap in format with the book's test bank. The questions and answers are provided separately. The best way for the student to use these exams is to take them a few days before an in-class exam. They provide guidance about whether preparation has been sufficient. If the student can answer all or almost all the questions, it is likely that he or she has mastered the material well. If the student does poorly on the practice, additional preparation and study are needed.

Outside of the textbook section are additional website features. Perhaps of most interest is the extensive links section. Web addresses change rapidly, so by the time you read this some might no longer be correct. Although a few are shown in Chapter 1, a more extensive list with site descriptions can be found on the website, which I will keep updated. Links to professional associations, not all of which are in the United States, include links to the Academy of Management, the American Psychological Association, the American Psychological Society, the British Psychological Society, the International Association of Applied Psychology, and the Society of Industrial and Organizational Psychology (SIOP). Links to I/O journals are also provided, many of which contain abstracts and tables of contents to recent issues. A section includes sites that have I/O-related information. such as the Gallup Organization or the U.S. Bureau of Labor Statistics. Another section has links to I/O consulting firms, whose sites explain the services that these companies provide. As I learn of new, relevant sites, they will be added. Students can refer to the links for additional information. For example, I regularly suggest that students try the SIOP link for information about graduate schools in the United States and Canada. A student curious about what the large consulting firms do could check out their extensive and interesting websites.

ACKNOWLEDGMENTS

In writing all three editions of this book, I was lucky to receive advice and assistance from many people. I express my sincere thanks to the many colleagues and students who provided such help, as well as to the Wiley people, who did a superb job.

First are the members of the USF I/O group:

Tammy Allen Edward Levine
Walter Borman Carnot Nelson
Michael Brannick Herb Meyer
Michael Coovert Louis Penner

There are colleagues and friends from around the world who provided feedback and information:

Seymour Adler, Assessment Solutions, Inc. Julian Barling, Queens University, Canada John Bernardin, Florida Atlantic University Stephen Bluen, South Africa Peter Chen, Colorado State University Yochi Cohen-Charash, Baruch University Steven Cronshaw, University of Guelph, Canada Donald Davis, Old Dominion University Laura Desmaris, IBM Dov Eden, Tel Aviv University, Israel Barbara Ellis, Charleston, SC Michael Frese, University of Giessen, Germany Yitzhak Fried, Wayne State University Barbara Fritzsche, University of Central Florida Joan Hall, Naval Air Warfare Center Training Systems Division Paul Jackson, University of Sheffield, England Richard Jeanneret, PAQ Services, Inc.

Wales, Australia
Filip Lievens, University of Ghent, Belgium
John C. Munene, Makere University, Uganda
Lakshmi Narayanan, Florida Gulf Coast
University
Brian O'Connell, American Institutes for
Research
Richard Perlow, University of Manitoba,
Canada
Mark Peterson, Florida Atlantic University
Ivan Robertson, University of Manchester
Institute of Science and Technology, England
Juan Sanchez, Florida International
University
Oi-Ling Siu, Lingnan University, Hong Kong
Arie Shirom, Tel Aviv University, Israel
Dirk Steiner Université de Nice-Sophia

Boris Kabanoff, University of New South

Arie Shirom, Tel Aviv University, Israel
Dirk Steiner, Université de Nice-Sophia,
France
Paul Taylor, University of Waiko, New
Zealand

Richard Vosburgh, Compaq Computer

In addition, 12 I/O psychologists provided the Psychology in Practice cases:

Joan Brannick, Brannick HR Connections
Kerry Bunker, Center for Creative Leadership
Jonathan Canger, TMP Worldwide
Janis Cannon-Bowers, Naval Air Warfare
Center Training Systems Division
Jeanne Carsten, JP Morgan Chase
Amy Carver, Wacovia Bank

Steve Jex, Bowling Green State University

Steve Cohen, Dove Consulting
Anna Erickson, SBC Communications
Chuck Evans, RHR International
Charles Michaels, University of South Florida
Lynn Summers, Mediappraise Corporation
Tom White, Digital Equipment Corporation,
Australia

The reviewers of the various drafts of the book did a superb job, and the comments of every one of them were a tremendous help. Those who here reviewed the current or prior editions are:

Robert B. Bechtel, University of Arizona David V. Day, Pennsylvania State University Ianet Barnes Farrell, University of Connecticut M. Jocelyne Gessner, University of Houston Sigrid Gustafson, American Institutes for Research Jane Halpert, De Paul University Leslie Hammer, Portland State University David Kravitz, American Institutes of Research Karl Kuhnert, University of Georgia Dan Landis, University of Mississippi Terese Macan, University of Missouri at St. Louis John Meyer, University of Western Ontario Susan Mohammad, Penn State University George Neuman, Northern Illinois University

Gerald L. Quatman, Xavier University Mary Roznowski, Ohio State University Ann Marie Ryan, Michigan State University Ladd Wheeler, University of Rochester Joseph Horn, University of Texas at Austin Marjorie Krebs, Gannon University Therese Macan, University of Missouri at St. Karen Maher, California State University at Long Beach Patrick McCarthy, Indiana University Southeast Steven Scher, Eastern Illinois University Susan Shapiro, Indiana University East Kenneth Shultz, California State University at San Bernardino Steven Stern, University of Pittsburgh at Johnstown

H.A. Witkin, Queens College

I had the good fortune to be able to work with three editors on this edition, Ellen Schatz, Helen McInnis, and Tim Vertovec. Diana Merrill-Liles and Kristen Babroski, editorial assistants for psychology, were helpful in a variety of ways.

The production staff at Wiley did an outstanding job of turning my manuscript into the final book form. They were my production editor, Brienna Berger, illustration editor, Sandra Rigby, photo editor, Jennifer MacMillan, designer, Maddy Lesure, and copyeditor, Jenifer Cooke.

Finally, I would like to thank my wife, Gail Spector, for helping in many ways, including helping me make the hundreds of little decisions involved in writing a book.

Paul E. Spector

BRIEF CONTENTS

| Part One INTRODUCTI | ON | | | 1 | |
|--|-----------|------|--|-----|--|
| | Chapter | 1 | Introduction 3 | | |
| | Chapter | 2 | Research Methods in I/O Psychology 27 | | |
| Part Two | | | | | |
| ASSESSMENT OF JOBS, PERFORMANCE, AND PEOPLE 51 | | | | | |
| | Chapter | 3 | Job Analysis 53 | | |
| | Chapter | 4 | Performance Appraisal 77 | | |
| | Chapter | 5 | Assessment Methods for Selection and Placement 103 | | |
| Part Three SELECTING | AND TR | AIN | IING EMPLOYEES | 131 | |
| | Chapter | 6 | Selecting Employees 133 | | |
| | Chapter | | Training 163 | | |
| Part Four THE INDIVID | OUAL AN | ND T | ΓHE ORGANIZATION | 185 | |
| | Chapter | 8 | Theories of Employee Motivation 187 | | |
| | Chapter | 9 | Job Satisfaction and Organizational Commitment 209 | | |
| | Chapter 1 | 10 | Productive and Counterproductive Employee Behavior 238 | | |
| | Chapter 1 | 11 | Occupational Health Psychology 262 | | |
| Part Five THE SOCIAL CONTEXT OF WORK 28 | | | | | |
| | Chapter 1 | 12 | Work Groups and Work Teams 291 | | |
| | Chapter 1 | L3 | Leadership and Power in Organizations 312 | | |
| | Chapter 1 | L4 | Organizational Development and Theory 338 | | |
| REFERENCES | | | | 358 | |
| GLOSSARY | | | | 381 | |

此为试读,需要完整PDF请访问: www.ertongbook.com

CONTENTS

Part One INTRODUCTION

Chapter 1 Introduction

1

What Is I/O Psychology? 4 Activities and Settings of I/O Psychologists 5 History of the Field of I/O Psychology 7 I/O Psychology Around the World 10 What It Takes to Be an I/O Psychologist 13 I/O Psychology as a Profession 19 I/O Psychology as a Science 19 Internet Resources for I/O Psychologists and Students 21 Ethics of the I/O Field 22 Current Trends Affecting the Field 23 Technology 24 Internationalization 24 Skilled Labor Shortages 24 Occupational Health Psychology 25 Chapter Summary 25

3

Chapter 2 Research Methods in I/O Psychology 27

```
Research Questions 28
Important Research Design Concepts 29
Variables 29
Research Setting 30
Generalizability 30
Control 30
Random Assignment and Random Selection 32
Confounding 32
Research Designs 33
The Experiment 33
Survey Designs 34
Observational Designs 35
Measurement 37
```

| Classical Measurement Theory 37 Reliability 38 Validity 39 Statistics 41 Descriptive Statistics 41 Measures of Central Tendency and Dispersion 41 Correlation 42 Regression 43 Inferential Statistics 45 Meta-Analysis 48 Ethics of Research 48 Chapter Summary 49 | |
|---|----|
| PART TWO ASSESSMENT OF JOBS, PERFORMANCE, AND PEOPLE | 51 |
| Chapter 3 Job Analysis 53 | |
| What Is Job Analysis? 54 The Job-Oriented Approach 54 The Person-Oriented Approach 56 Purposes of Job Analysis 57 Career Development 57 Legal Issues 58 Performance Appraisal 58 Selection 59 Training 59 Research 59 Sources of Job Analysis Information 60 Who Provides the Information? 60 How Do People Provide Job Analysis Information? 61 Perform Job 61 Observe 61 Interview 61 Questionnaire 61 Multiple Methods Methods of Job Analysis 62 Job Components Inventory 63 | |
| Functional Job Analysis 64 Occupational Information Network 65 | |
| Occupational information network of | |

Position Analysis Questionnaire 65

Choosing a Job Analysis Method 69

Task Inventories 67

Reliability and Validity of Job Analysis Information 70
Reliability 70
Validity 70
Job Evaluation 71
Comparable Worth 72
Future Issues and Challenges 73
Chapter Summary 74
I/O PSYCHOLOGY IN PRACTICE 76

Chapter 4 Performance Appraisal 77

Why Do We Appraise Employees? 78 Administrative Decisions 78 Employee Development and Feedback 78 Criteria for Research 79 Performance Criteria Characteristics of Criteria Actual Versus Theoretical Criteria 79 Contamination, Deficiency, and Relevance 80 Level of Specificity 81 Criterion Complexity Dynamic Criteria 83 Methods for Assessing Job Performance Objective Measures of Job Performance Subjective Measures of Job Performance Graphic Rating Forms 87 Behavior-Focused Rating Forms 87 Development of Behavior-Focused Forms 90 Cognitive Processes Underlying Ratings 91 Models of the Rating Process 91 Content of Subordinate Effectiveness 92 Rater Bias and Error 93 Halo Errors 93 Distributional Errors 94 Control of Rater Bias and Error 95 Error-Resistant Forms to Assess Performance 95 Rater Training to Reduce Errors 95 Factors That Influence Job Performance Ratings 97 360-Degree Feedback 97 The Impact of Technology on Performance Appraisal Legal Issues in Performance Appraisal Future Issues and Challenges 100 Chapter Summary 101

I/O Psychology in Practice 102

Chapter 5 Assessment Methods for Selection and Placement 103

Job-Related Characteristics 104 Psychological Tests Characteristics of Tests 106 Group Versus Individually Administered Tests 106 Objective Versus Open-Ended Tests 106 Paper-and-Pencil Versus Performance Tests 107 Power Versus Speed Tests 107 Ability Tests 107 Cognitive Ability Tests 107 Psychomotor Ability Tests 108 Knowledge and Skill Tests 109 Personality Tests 112 Emotional Intelligence Tests 113 Integrity Tests 114 Vocational Interest Tests 115 Biographical Information 116 Interviews 118 Work Samples 121 Assessment Centers 122 Electronic Assessment 126 Electronic Administration of Psychological Tests 126 Tailored Testing 128 Future Issues and Challenges 128 Chapter Summary 129 I/O PSYCHOLOGY IN PRACTICE 130

PART THREE SELECTING AND TRAINING EMPLOYEES

Chapter 6 Selecting Employees 133

The Planning of Human Resource Needs 134
Recruiting Applicants 136
Selecting Employees 139
How Do We Select Employees? 139
Conducting a Validation Study 140
Step 1: Conduct a Job Analysis 141
Step 2: Specify Job Performance Criteria 141
Step 3: Choose Predictors 141
Step 4: Validate the Predictors 142
Step 5: Cross-Validate 143
Validity Generalization 143

131

How Predictor Information is Used for Selection 144 Multiple Hurdles 144 Regression Approach 144 Alternatives to Conducting Validation Studies 147 Getting Applicants to Accept and Keep Job Offers The Utility of Scientific Selection How Valid Selection Devices Work 150 Baserate 150 Selection Ratio Validity 150 How Valid Predictors Increase Success Rates 151 Computing the Utility of Scientific Selection 152 International Differences in Selection Practices Legal Issues 154 Legal Selection in the United States 154 Uniform Guidelines on Employee Selection 156 Essential Functions and Reasonable Accommodation 157 Affirmative Action 158 Legal Selection Outside the United States 159 Future Issues and Challenges 159 Chapter Summary 160 I/O PSYCHOLOGY IN PRACTICE 161 Chapter 7 Training 163 Needs Assessment 164 Objectives 165 Training Design 165 Trainee Characteristics 166 Design Factors That Affect Transfer of Training 167 Feedback 167 General Principles Identical Elements 168 Overlearning 169 Sequencing of Training Sessions 169 Work Environment 170 Training Methods 171 Audiovisual Instruction 172 Autoinstruction 172 Conference 172 Lecture 172 Modeling 172 On-the-Job Training 173 Role-Playing 173

Simulations 173

Electronic Training 173
Mentoring 174
Delivery of a Training Program 174
Evaluation of a Training Program 175
Set Criteria 176
Choose Design 178
Pretest-Posttest 178
Control Group 179
Choose Measures of the Criteria 179
Collect Data 180
Analyze and Interpret Data 180
Future Issues and Challenges 181
Chapter Summary 182
I/O PSYCHOLOGY IN PRACTICE 183

Part Four THE INDIVIDUAL AND THE ORGANIZATION

185

Chapter 8 Theories of Employee Motivation 187

What Is Motivation? 188 Work Motivation Theories 188 Need Theories 189 Need Hierarchy Theory 190 ERG Theory 191 Two-Factor Theory 192 Reinforcement Theory 192 Expectancy Theory 194 Self-Efficacy Theory 196 Equity Theory 198 Goal-Setting Theory Action Theory 204 Future Issues and Challenges Chapter Summary 207 I/O PSYCHOLOGY IN PRACTICE 208

Chapter 9 Job Satisfaction and Organizational Commitment 209

The Nature of Job Satisfaction 210

How People Feel About Their Jobs: Americans and Nonamericans 210

The Assessment of Job Satisfaction 213

Job Descriptive Index (JDI) 214

Minnesota Satisfaction Questionnaire (MSQ) 214

Job in General Scale (JIG) 216

Is Global Satisfaction the Sum of Facets? 217