Professional Issues in Computing

HIGHER NATIONAL DIPLOMA

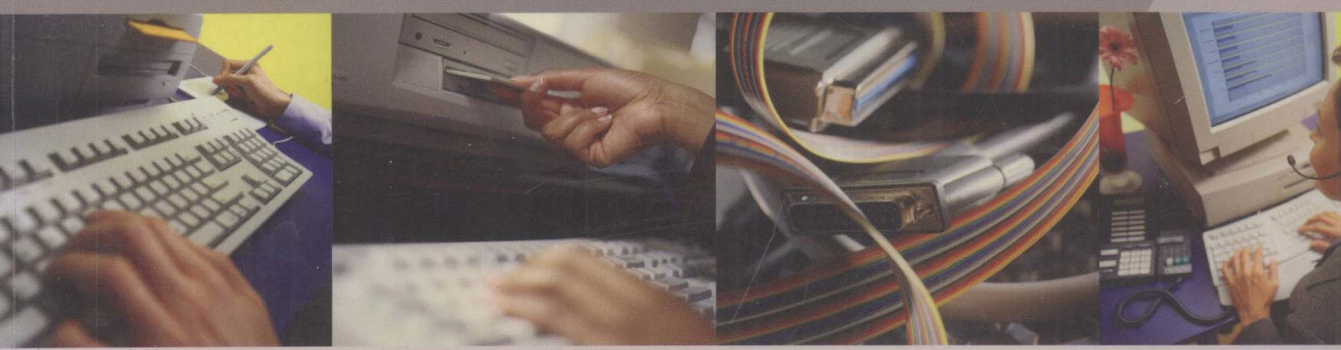
计算机专业职业道德

【英】苏格兰学历管理委员会（SQA）

英文原版

Unit Student Guide

COMPUTING: Software Development D76H 35



中国时代经济出版社

SCOTTISH QUALIFICATIONS AUTHORITY

Professional Issues in Computing

HIGHER NATIONAL DIPLOMA

计算机专业职业道德

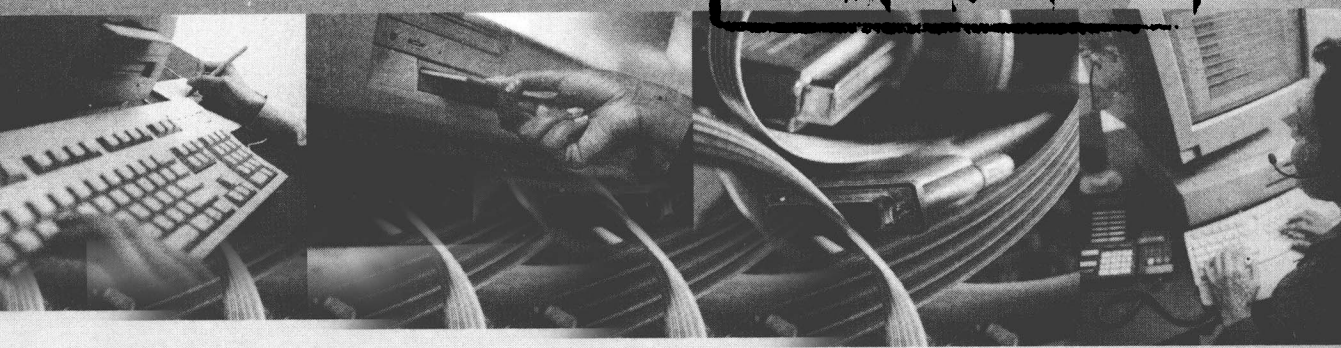
【英】苏格兰学历管理委员会（SQA）

英文原版

Unit Student Guide

COMPUTING: Software Development

江苏工业学院图书馆
藏书章



SCOTTISH QUALIFICATIONS AUTHORITY

著作权合同登记　图字：01-2006-0763号

图书在版编目（CIP）数据

计算机专业职业道德/苏格兰学历管理委员会著. -北京：中国时代经济出版社，2006.2
ISBN 7-80221-023-2
Ⅰ.计… Ⅱ.苏… Ⅲ.电子计算机-工程技术人员-职业道德-教材-英文 Ⅳ.TP3-05
中国版本图书馆CIP数据核字（2006）第010565号

"First published by CMEPH"

"All Rights Reserved"

" Authorized Apograph/ Translation/Adaptation of the editions by the Scottish Qualifications Authority. All Intellectual Property Rights vest in the Scottish Qualifications Authority and no part of these "Works" may be reproduced in any form without the express written permission of Scottish Qualifications Authority"

计算机专业职业道德

Professional Issues in Computing

苏格兰学历管理委员会著

出 版 者	中国时代经济出版社
地　　址	北京市东城区东四十条24号 青蓝大厦东办公区11层
邮政编码	100007
电　　话	(010) 68320825 (发行部) (010) 88361317 (邮购)
传　　真	(010) 68320634
发　　行	各地新华书店
印　　刷	北京市优美印刷有限责任公司
开　　本	787×1092　1/16
版　　次	2006年2月第1版
印　　次	2006年2月第1次印刷
印　　张	13.5
定　　价	63.00元
书　　号	ISBN 7-80221-023-2/G·021

版权所有 侵权必究

Contents

1 Introduction to the Scottish Qualifications Authority 1

2 Introduction to the Unit 3

2.1 What is the Purpose of this Unit? 3
2.2 What are the Outcomes of this Unit? 3
2.3 What do I Need to be Able to do in Order to Achieve this Unit? 4
2.4 Approximate Study Time for This Unit 4
2.5 Equipment/Material Required for this Unit 4
2.6 Symbols Used in this Unit 5

3 Assessment Information for this Unit 9

3.1 What Do I Have to Do to Achieve this Unit? 9

4 Suggested Lesson Plan 11

5 Learning Material 13

5.1 Professional Institutions — Outcome 1 13
5.2 Legislation — Outcome 2 36
5.3 Codes of Conduct — Outcome 3 84

© Scottish Qualifications Authority 2004

1 Introduction to the Scottish Qualifications Authority

This Unit **D76H 35 Professional Issues in *Computing*** *has been devised and developed by the* Scottish Qualifications Authority (SQA). Here is an explanation of the SQA and its work:

The SQA is the national body in Scotland responsible for the development, accreditation, assessment, and certification of qualifications other than degrees.

Its website can be viewed on: www.sqa.org.uk.

SQA's functions are to:

- devise, develop and validate qualifications, and keep them under review
- accredit qualifications
- approve education and training establishments as being suitable for entering people for these qualifications
- arrange for, assist in, and carry out, the assessment of people taking SQA qualifications

© Scottish Qualifications Authority 2004

此为试读,需要完整PDF请访问: www.ertongbook.com

- quality assure education and training establishments which offer SQA qualifications

- issue certificates to candidates.

In order to pass SQA units, students must complete prescribed assessments. These assessments must meet certain standards.

The Unit Specification outlines the five Outcomes that students must complete in order to achieve this Unit. The Specification also details the knowledge and/or skills required to achieve the Outcomes. The Evidence Requirements prescribe the type, standard and amount of evidence required for each Outcome.

© Scottish Qualifications Authority 2004

2 Introduction to the Unit

2.1 What is the Purpose of this Unit?

This Unit is designed to provide you with an extensive understanding of the context within which they will work as computing professionals.

The Unit will provide you with a broad knowledge of the ethical, social and legal aspects of professional computing environments.

This Unit is primarily intended for candidates who propose to follow a career, or are following a career, as computing professionals and who require an understanding of the professional responsibilities of such employment.

2.2 What are the Outcomes of this Unit?

There are five Outcomes:

1. Discuss the role of professional institutions in computing.

2. Describe the legislation that applies to the computing profession.

3. Explain the major codes of conduct in the computing profession.

© Scottish Qualifications Authority 2004

4. Explain the meaning and importance of intellectual property for the computing profession.

5. Demonstrate an awareness of the application of ethics to the computing profession.

2.3 What do I Need to be Able to do in Order to Achieve this Unit?

The learning material throughout this unit is designed to get you thinking and asking questions of yourself.

Where decisions are made based on your own belief systems and morals, it is important to be aware of the 'bigger picture'. That is, you should consider whether your actions are professional (and what this means), and who and what will be affected by your decisions or actions. Of course, you must always conduct yourself within the boundaries of the law so that an awareness of relevant legislation is also important.

2.4 Approximate Study Time for This Unit

The recommended study time for this Unit is 80 notional hours of class time plus approximately the same again in self-study. Some of the time both in and out of class is likely to be spent on research activities.

2.5 Equipment/ Material Required for this Unit

Access to a word processor and print device is recommended for working on the activities and also for the production of the outcome evidence.

You will need access to the Internet to carry out research, but use of a reference library would also be

© Scottish Qualifications Authority 2004

beneficial.

2.6 Symbols Used in this Unit

The various Learning Materials sections are designed so that you can work at your own pace, with tutor support. As you work through the Learning Materials (see Section 5), you will encounter symbols. These symbols indicate that you are expected to do a task. **These tasks are not Outcome Assessments.** They are exercises designed to consolidate learning or encourage thought, in preparation for the Outcome Assessment (see Section 3 — Assessment Information for this Unit).

© Scottish Qualifications Authority 2004

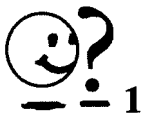
Activity

This symbol indicates an Activity. Usually, activities are used to improve or consolidate your understanding of the subject in general or a particular feature of it.

In this Unit, you are asked to undertake various activities ranging from group discussions to exploring the Internet. All activities are designed to improve your understanding and allow you develop a broader appreciation of the issues surrounding professionalism. Gathering your own activity responses will help you develop your assessment report.

© Scottish Qualifications Authority 2004

Self-Assessed Question



This symbol indicates a Self-Assessed Question. Using a Self-Assessed Question helps you check your understanding of the content that you have already covered. The Self-Assessed Questions in this guide will often take the form of multiple choice or true/false questions centred around the material you have just covered.

Everything is provided for you to check your own responses. Answers to the Self-Assessed Questions and Activities are to be found at the back of the Unit Student Guide. Where suggested responses to activities are provided in the Unit Student Guide, **students are strongly discouraged from looking at these responses before they attempt the question/ activity.** The Self-Assessed Questions and Activities throughout the Unit Student Guide will help you to prepare yourself for the formal assessments, and to identify topic areas in which you will require clarification and additional tutor support. The Self-Assessed Questions and Activities will not serve this purpose if you look at the answers before trying them!

Self-Assessed Questions and Activities are designed to be checked by you. No tutor input is necessary at this stage unless special help is requested, although from

© Scottish Qualifications Authority 2004

此为试读,需要完整PDF请访问: www.ertongbook.com

time to time your tutor may wish to view your responses to Self-Assessed Questions to see how you are progressing.

© Scottish Qualifications Authority 2004

3 Assessment Information for this Unit

3.1 What Do I Have to Do to Achieve This Unit?

This Unit is assessed by one extended report of at least 2000 words covering the knowledge and skills for all Outcomes.

You may be using an extended case study or appropriate workplace situation (approved by your tutor) as the basis for generating evidence for the report.

© Scottish Qualifications Authority 2004

4 Suggested Lesson Plan

The Learning Materials (see Section 5) are designed to lead you through a series of activities which will allow you to consolidate your learning and check on your own progress.

© Scottish Qualifications Authority 2004

5 Learning Material

5.1 Professional Institutions — Outcome 1

5.1.1 Professionalism

When we talk about a 'professional', we generally have an understanding that this is a position to be respected.

© Scottish Qualifications Authority 2004

此为试读,需要完整PDF请访问: www.ertongbook.com