

**Telecommunications**

Cap. 282B.

**TELECOMMUNICATIONS (CERTIFICATION STANDARDS) REGULATIONS, 2007**

2007/46.

**Authority:** These Regulations were made on 16th May, 2007 by the Minister under section 110(1) of the *Telecommunications Act*.

**Commencement:** 28th May, 2007

1. These Regulations may be cited as the *Telecommunications (Certification Standards) Regulations, 2007*.

2. In these Regulations,

"certificate of registration" means a certificate granted by the Telecommunications Unit pursuant to regulation 8;

"Telecommunications Unit" or "Unit" means the Unit described as such that is located in the Ministry responsible for Telecommunications.

3. The certification standards set out in

(a) the Code of Practice No. 1/2002 in Part A of the *First Schedule* are those standards required to be prescribed under paragraph (a) of section 51(1) in respect of technicians; and

First  
Schedule.

(b) the Code of Practice No. 2/2002 in Part B of the *First Schedule* are those standards required to be prescribed under paragraphs (b) and (c) of section 51(1) in respect of

First  
Schedule.

(i) customer equipment; and

(ii) wiring that is to be connected to the public telecommunications network.

Form 1.  
Second  
Schedule.

**4.** A person who is desirous of being a certified technician must apply to the Unit in the Form 1 set out in the *Second Schedule* for certification.

**5.** The Unit shall grant certification of a technician under paragraph 6 on such conditions as it deems appropriate for a particular type, brand or model of customer equipment where it determines after examination of the application and associated documentation that the applicant has complied with paragraph 5 of the Code of Practice for certified technicians set out in Code No.1/2002.

**6.** The certification shall be made in writing showing the effective and expiry dates of the certification and shall be for a period of 5 years.

**7.** (1) There shall be a Register comprising the names of certified technicians who have

(a) been granted certification in accordance with regulation 5; and

(b) have obtained a certificate of registration.

(2) The Register referred to in paragraph (1) shall be kept by the Unit and shall be available for inspection at the Unit.

Form 2.  
Second  
Schedule.

**8.** (1) A certified technician within the meaning of these Regulations shall, for the purpose of installing customer equipment that is required for connection to the public switched telephone network, first obtain a certificate of registration for that equipment from the Telecommunications Unit in the Form 2 set out in the *Second Schedule*.

Form 1.  
Second  
Schedule.

(2) An application for a certificate of registration referred to in sub-paragraph (1) shall be made to the Unit in the Form 1 set out in the *Second Schedule*, and together with the application there shall be submitted by the applicant any additional documentation that may be required by the Unit for the applicant to comply with paragraph 5 of the Code of Practice No. 1/2002.

(3) The Unit shall grant the certificate of registration, with or without conditions for a particular type, brand or model of customer equipment,

(a) if it determines after examination of the application and associated documentation that the equipment has complied with the requirements of the Code of Practice No. 2/2002; and

(b) on the payment of the relevant fee set out in the *Telecommunications (Licence Fees) Regulations, 2003*.<sup>2003/78.</sup>

(4) The Telecommunications Unit shall publish in the *Official Gazette* annually in the month of September the names of certified technicians who have been granted a certificate of registration in respect of customer equipment under these Regulations.

**9.** The *Telecommunications (Certification Standards) Regulations, 2003* are revoked.<sup>2003/80.</sup>

FIRST SCHEDULE

*(Regulations 3(a), 5, 8)*

PART A

Telecommunications Act  
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**CODE OF PRACTICE NO. 1/2002 FOR CERTIFIED  
TECHNICIANS IN RELATION TO THE USE  
OF CUSTOMER EQUIPMENT**

INTRODUCTION

1. The purpose of this Code of Practice being issued under section 51 is to ensure that persons who install and maintain customer equipment that is connected to a public telecommunications system are competent to do so.

2. The installation or maintenance of customer equipment must be performed by certified technicians.

3. The categories and types of customer equipment that require approval under this Code include

- (a) telephone instruments;
- (b) fax machines;
- (c) private automatic branch exchanges (PABXs);
- (d) key systems;
- (e) modems (discrete or integrated);
- (f) cordless telephones;
- (g) any other customer premises equipment to be connected to the public switched telephone network; and
- (h) inside wiring.

4. A person who installs customer equipment using simple plug-into sockets like a basic phone device or fax machine is not required to be a certified technician; but all other aspects of the Code of Practice in No. 2/2002 set out in Part B of this Schedule must be adhered to.

#### CERTIFIED TECHNICIANS

5. For the purposes of the Act and these Regulations, a certified technician is a person

(a) who

- (i) establishes that he was a technically trained employee or contractor of the existing carrier;
- (ii) has had 12 months on-the-job experience in the installation of the relevant category of customer equipment; or
- (iii) has been trained and certified by the manufacturer or by a dealer or distributor authorised by the manufacturer of the relevant customer equipment; and

(b) who

- (i) has been authorised in writing by the manufacturer referred to in sub-paragraph (iii) of paragraph (a), or by a dealer or distributor authorised by the manufacturer, to ensure that individuals carrying out any installation of the relevant customer equipment under the supervision of the certified technician will perform the required installation and associated operations so as to comply with this Code of Practice;
- (ii) has successfully completed a training course recommended or designated by the Telecommunications Unit; or
- (iii) can demonstrate to the Unit that he
  - (A) has been trained in the installation and maintenance of the relevant customer equipment;

- (B) has had at least 5 years experience in the installation and maintenance of the relevant customer equipment; and
- (C) has been certified by the Chief Engineering Manager or equivalent of any licensed carrier of wireline services.

#### COMPLIANCE

6. Section 52(1) forbids the installation, maintenance or repair of wiring unless done by a certified technician unless the connection is to the public telecommunications network of approved plugs and jacks.

#### NON-COMPLIANCE

7. (1) Section 53 authorises a carrier to disconnect from its public telecommunications network any wiring, customer equipment, plugs or jacks that do not comply with the certification standards referred to in this Code.

(2) Section 54

- (a) permits a carrier with the consent of the owner or occupier to enter premises where customer equipment or wiring is connected to the public telecommunications network of the carrier at such times as are reasonable to conduct inspections of connections, customer equipment and wiring in relation to that network; and
- (b) permits the licensee to disconnect the service provided to that person where the owner or occupier denies reasonable access to the carrier.

#### PENALTIES

8. Section 80(b) sets out the penalties of \$10,000 or 12 months imprisonment for the installation of customer equipment to any telecommunications network without being certified by the Minister under the Act.

PART B

Telecommunications Act  
Cap. 282B

(Regulations 3(b), 8)

**CODE OF PRACTICE No. 2/2002 FOR**

- (a) CUSTOMER EQUIPMENT
- (b) WIRING APPROVAL AND
- (c) LABELLING

INTRODUCTION

1. The purpose of this Code of Practice is to:
  - (a) protect the integrity of the public telecommunications network;
  - (b) protect the health and safety of persons who operate, use, install and maintain, or are likely to be affected by the operation of the public telecommunications network;
  - (c) ensure the interoperability of the customer equipment wiring with the public telecommunications network; and
  - (d) adhere to relevant international standards.

APPROVAL OF CUSTOMER EQUIPMENT

2. (1) Customer equipment that is required for connection to the public switched telecommunications network must first be approved by the Unit.
  - (2) Approval of customer equipment shall not be given unless
    - (a) the equipment is registered at the Telecommunications Unit in the Form 2 Form 2. set out in the *Second Schedule*; and
    - (b) a licence is issued by that Unit for presentation to the telecommunications carrier in respect of the equipment.

3. The categories and types of customer equipment that require approval include:

- (a) telephone instruments;
- (b) fax machines;
- (c) private automatic branch exchanges (PABXs);
- (d) key systems;
- (e) modems (discrete or integrated);
- (f) cordless telephones;
- (g) inside wiring;
- (h) any other customer premises equipment to be connected to the public switched telephone network.

4. (1) Under paragraph (b) of section 51(4) all customer equipment and wiring owned, operated or maintained by the existing telecommunication carrier are deemed to meet the certification standards required at the date of commencement of the Act.

(2) In order to be registered by the Unit, customer equipment must be certified:

EITHER

- (a) under Part 68 and Part 15 - Connection of Terminal Equipment to the Telephone Network under the Federal Communications Commission (FCC) Rules;

OR

- (b) under one or more other equivalent international rules provided that the applicant can demonstrate that the technical and manufacturing standards meet all the applicable requirements for operation in Barbados.



LABELLING REQUIREMENTS

5. (1) In order to satisfy the labelling requirements stipulated in section 55, customer equipment must have displayed prominently on an outside surface, permanently affixed or engraved, the information contained in the following paragraphs (a) to (e) or that contained in paragraph (f) below:

- (a) complies with Part 68 and Part 15, of the Federal Communications Commission (FCC) Rules, or any other equivalent international rules;
- (b) FCC/International Registration Number .....
- (c) Manufacturer's name .....
- (d) Model number .....
- (e) Country of Origin "made in ....."
- (f) other markings equivalent to those listed at paragraphs (a) to (e) and individually approved by the Unit.

(2) The following mandatory Telephone Standards are appropriate to multi-line sites:

- TIA/EIA 470B - Telephone Instruments and Loop Signalling (July 1987)
- FCC Part 15 - Radio Frequency Devices (April 1999)
- FCC Part 68 - Connection of Terminal Equipment to the Telephone Network (October 1998)
- UL 1459 - Safety for Telephone Equipment (Second Edition)
- UL 94 - Safety for Test for Inflammability of Plastic Materials for Parts in Devices and Appliances (May 1998)

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- ITU E161
  - Arrangements of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network
  - Any comparable International Standards i.e.
    - (a) ETSI (European Telecommunication Standards Institute)
    - (b) Industry Canada
    - (c) Japanese Standards
    - (d) Singapore Standards
    - (e) Australian Standards

UL means Underwriters Laboratories

TIA/EIA means Telecommunications Industry Association/Electronic Industries Alliance

ITU means International Telecommunications Union

(3) The following equipment can also be used:

- (a) telephone instruments supporting flash hook duration in the range of 400 to 800 milliseconds;
- (b) telephone instruments designed to operate under the following environmental conditions:
  - Operating temperature of up to 40°C.
  - Relative humidity of 5% to 95% at temperature up to 40°C.

(4) For connection to the existing network, telephone instruments must be able to fit "RJ" Jack for 2-wire connection.

#### WIRING REQUIREMENTS

(5) Interior Wiring

The following standards for interior wiring are mandatory:

- FCC Part 68 subsection 68.213 - 215 - Installation of System Premises Wiring (October 1998)
  - EIA/TIA - 568 A Commercial Building Wiring Standard (October 1995)
  - EIA/TIA Code of Practices Bulletin #36 (August 1991)
  - UL 1581 Standards for Safety for Reference Standards for Wires, Cables and Flexible Cords (June 1999)
  - UL 444 Communication Cables
  - UL 444 Standard for Safety for Communications Cable (June 1998)
  - UL 1863 Standard for Safety for Communication Circuit Accessories (June 1998)
  - Any other relevant or equivalent international standards
- (6) To ensure a high level of reliability, it is recommended that Modular jacks be of the gel-filled type;
- (7) If any of the above standards for interior wiring are used, these must be clearly labelled at the site.

#### COMPLIANCE

6. Section 52

- (a) forbids the connecting to the public telecommunications network of customer equipment and wiring that do not comply with the prescribed certification standards; and

- (b) requires any person who manufactures customer equipment or wiring for connection to the public telecommunications network to comply with the applicable certification requirements.

#### LICENSEE RIGHTS

7. (1) Section 53 authorises a carrier to disconnect from its public telecommunications network any wiring, customer equipment, plugs or jacks that do not comply with the certification requirements as detailed in this Code of Practice.

(2) Section 54(1)

- (a) permits a carrier with the consent of the owner or occupier to enter premises where customer equipment or wiring is connected to the public telecommunications network of that carrier at such times as are reasonable to conduct inspections of connections, customer equipment and wiring in relation to that network; and
- (b) permits the licensee to disconnect the service provided to that person where the owner or occupier denies reasonable access to the carrier.

#### PENALTIES

8. (1) Section 80(a) sets out the penalties of \$100 000 or 3 years imprisonment for the installation of a telecommunications network or telecommunications apparatus or customer equipment that is directly or indirectly connected to a telecommunications network without being certified by the Minister under the Act.

(2) Section 80(b) sets out the penalties of \$10 000 or 12 months imprisonment for the installation of customer equipment to any telecommunications network without being certified by the Minister under the Act.



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5. Model No. \_\_\_\_\_

6. Name of Manufacturer: \_\_\_\_\_

7. Country of Origin: \_\_\_\_\_

Note (1) This term is defined in Code of Practice No. 1/2002 as "telecommunications equipment and inside wiring located at a customer's premises and connected to a telecommunications system at the network termination point."

Note (2) The categories or types of customer equipment which need approval include:

- (a) telephone instruments;
- (b) fax machines;
- (c) PABXs;
- (d) key systems;
- (e) modems (discrete or integrated);
- (f) cordless telephones;
- (g) inside wiring;
- (h) any other customer equipment to be connected to public switched telecommunications system.

Note (3) Persons being certified for the installation of more than one type of equipment need only complete (1) and (3). The equipment types must be listed at 3. e.g. (a) - (f) or as the case may be.

PART C: EDUCATION AND TRAINING

1. Education (Certificates and Diplomas must be attached)

School	Name & Location	Dates	Honours/Certificates/ Diplomas	Courses/ Study

2. CUSTOMER EQUIPMENT TRAINING  
(Training Certificates must be attached)

Course	Locations	Dates of Attendances	Manufacturers

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PART D: EMPLOYMENT EXPERIENCE

Job	Employer	Dates	Description of Duties

\*I/We hereby declare that, to the best of \*my/our knowledge and belief, the information and documents given by \*me/us in this application form are true and correct.

Signature of Applicant: \_\_\_\_\_

Date: \_\_\_\_\_



**Notes:**

- (a) \*Delete whichever is inapplicable.
- (b) Use one application form for only one model of the equipment.
- (c) Applicant must complete all relevant parts in BLOCK letters.
- (d) A processing fee of \$100 is to be paid for the initial application and \$50 for each subsequent application.
- (e) The complete form together with the supporting documents as specified in Part C above should be submitted to the Telecommunications Unit, Ministry responsible for Telecommunications.
- (f) All the documents submitted by a successful applicant will be retained by the Telecommunications Unit. In the case of an unsuccessful application, the applicant will be informed of the evaluation result and the submitted documents will be returned.

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**FORM 2**

*(Regulation 8)*

**CERTIFICATION OF CUSTOMER EQUIPMENT**

**CERTIFICATE OF REGISTRATION**

(Section 51(1) *Telecommunications Act*, Cap. 282B)

REGISTRATION NO.: \_\_\_\_\_

This is to certify that the customer equipment described below:  
having been installed in accordance with the Code of Practice No. 2/2002, has been  
approved and registered by the Telecommunications Unit for connection to the  
Public Switched Telephone Network (PSTN). There will be no connection to the  
PSTN without this Certificate.

A fee of \$20 is payable for this certification.

Location of Equipment: \_\_\_\_\_  
(Note <sup>1</sup>)

Chief Telecommunications Officer \_\_\_\_\_ Date: \_\_\_\_\_

**FOR MINISTRY USE ONLY**

Approval and Registration No.: CPE \_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_/\_\_\_

Approval and Registration Date: \_\_\_\_\_

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Note <sup>1</sup>For multiple locations please continue overleaf

**THIRD SCHEDULE**

*(Regulation 8)*

Certificate	Fee \$
Certificate of Registration	20.00