APCO/NENA ANSI 3.105.1-2015
Minimum Training Standard for TTY/TDD Use in the Public Safety Communications Center
APCO/NENA ANS 3.105.1-2015

This standard was written by The APCO International Workgroup with assistance of the APCO Communications Center Standards Committee and approved by the APCO Standards Development Committee on February 17, 2015. Final approval of this document as an American National Standard was received from ANSI on February 24, 2015.

Abstract: This standard addresses the minimum training requirements, in general, necessary to foster levels of consistency for all personnel in an emergency communications environment assigned to answering TTY/TDD calls for service specifically in the Public Safety environment. This standard responds to the valid needs of the rapidly expanding and ever-changing industry, providing competent training standards while defining training in certain knowledge, skills, and abilities, and recognizing the need to supplement basic competencies with agency-specific information and existing equipment-use parameters.

Keywords: ADA, Title II, Americans with Disabilities, hearing impaired, speech impaired, deaf, blind, disability, relay service, interpreter, training, telecommunicator, dispatcher, communications officer, call-taker, communications operator, public safety communications, training, 9-1-1, and emergency services.
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Foreword*

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On behalf of public safety communications professionals across the nation, the ADA Sub-Committee worked to complete comprehensive TTY/TDD Minimum Training Standards for Public Safety Telecommunicators. The Committee, consisting of a group of working public safety communications professionals from various size agencies and backgrounds, along with members of The Los Angeles City Department of Disability, Texas Commission on state Emergency Communications and the Washington State 9-1-1/TTY Education, Hearing, Speech and Deafness Center worked exhaustively to seek out and include current and relative information for this standard. The focus of this TTY/TDD Training standard for Public Safety Telecommunicators is to provide a consistent level of training needed for Telecommunicators to effectively triage and evaluate TTY/TDD calls. It is expected that every Telecommunicator that may be placed in the position of answering a TTY/TDD call be trained to this standard prior to being released to work independently on the dispatch floor. In this ever-changing environment there is a realization that this standard does not address the potential impact that Next Gen 9-1-1 may have on the handling of TTY/TDD calls. APCO has a white paper that is being published that reviews and addresses many of the questions and concerns Next Gen 9-1-1 may have on TTY/TDD calls.

The Committee thanks those on the APCO International Executive Council who assisted in disseminating this standard for review by the membership and the public safety professionals who reviewed the standard in draft form. It is this type of collaboration between industry professionals that increases the high degree of professionalism we all seek within our agencies.

Sherry Taylor
ADA Sub-Committee Committee Chair

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Acknowledgements*

Special recognition to the SDC ADA APCO NENA Workgroup that provided the pertinent research needed to successfully update this candidate standard.

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Acronyms and Abbreviations*

For the purposes of this ANS, the following definitions of acronyms apply:

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<td>Americans with Disabilities Act</td>
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<tr>
<td>ADAAA</td>
<td>ADA Amendments Act</td>
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<tr>
<td>AHJ</td>
<td>Authority Having Jurisdiction</td>
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<td>ANSI</td>
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<td>APCO</td>
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<td>American Sign Language</td>
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<td>CA</td>
<td>Communications Assistant</td>
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<td>CAD</td>
<td>Computer Aided Dispatch</td>
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<td>CASE</td>
<td>Conceptually Accurate Signed English</td>
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<tr>
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*The Acronyms and Abbreviations are informative material and not a part of the ANS*
Chapter 1  Introduction

1.1 Scope
This standard identifies the minimum training requirements for Telecommunicators specific to providing direct and equal access to public safety services to people who use a TTY/TDD to communicate, in accordance with the Americans with Disabilities Act and Department of Justice requirements. This document seeks to define the knowledge, skills, competencies, and minimum training requirements of individuals who receive emergency telephone calls from the public as well as the agency’s responsibilities for providing training, written directives, and testing in this critical function.

1.2 Purpose
In an effort to provide standardized training to PSAPs in the area of TTY/TDD call handling, the development of this document has included recommended standards developed by the Association of Public-Safety Communications Officials (APCO) International and National Emergency Number Association (NENA). The TTY/TDD Training Standards Workgroup developed this document on the premise that training should be standardized across public-safety organizations to ensure consistent compliance with the Americans with Disabilities Act (ADA), Title II requirements for telephone emergency services.

This standard should be viewed as independent and stand-alone from standards addressed elsewhere. Telecommunicators should be cognizant of other relevant standards, mandates, and legislation.

1.3 Definitions
Most terms used throughout this document are defined as they appear in the text. Additional definitions are provided below.

1.3.1 Agency: The hiring authority or also referred to as the Authority Having Jurisdiction (AHJ). The Agency or body that defines the roles, responsibilities, policies and procedures, and performance standards that direct the activity of the Public Safety Telecommunicator. In multi-discipline centers, the Agency governs the operation providing call taking/dispatch and related services to customer agencies; in single discipline centers, a single Agency may direct these services for one or more departments within a service area. Both have the duty to define training appropriateness, content, format, and continuing education requirements.

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1 Definitions are informative only and not considered part of this American National Standard (ANS)
1.3.2 **American Sign Language (ASL):** A language expressed through hands and body movements to express concepts rather than complete sentences. The grammatical structure is different than standard English.²

1.3.3 **American with Disabilities Act (ADA):** The Americans with Disabilities Act (ADA) is a landmark civil rights law that both identifies and prohibits discrimination on the basis of disability in employment, state and local government, public accommodations, commercial facilities, transportation, and telecommunications. This Act requires all Public Safety Answering Points (PSAPs) to provide direct and equal access to emergency telephone services for people with disabilities who use teletypewriters (TTY/TDDs), which are also known as telecommunications devices for the deaf. This means that the personnel answering calls at the PSAP level must be able to directly receive TTY/TDD calls and must be able to engage in TTY/TDD conversation.

1.3.4 **ASCII tones:** A person can also use a computer with a TTY modem and related software to communicate with someone who has a TTY or who has a computer with TTY software and a modem. Computers generally operate in American Standard Code for Information Exchange (ASCII), an electronic "language." A person who uses ASCII must use an ASCII/Baudot modem and related software to convert the ASCII code into Baudot code to communicate with another person who is using a Baudot-based system. Similarly, a person who is using a Baudot-based TTY must utilize conversion software to communicate with a person using an ASCII-based computer. Some TTY's can function in both Baudot and ASCII.

1.3.5 **Character Code System:** Is a method of transmitting basic text messages containing the Roman alphabet and numerals, along with a limited set of symbols.

1.3.6 **Blindness:** The term "blindness means central visual acuity of 20/200 or less in the better eye with the use of a correcting lens. An eye which is accompanied by a limitation in the fields of vision such that the widest diameter of the visual field subtends an angle no greater than 20 degrees shall be considered for purposes in this document as having a central visual acuity of 20/200 or less”.³

1.3.7 **Call for Service or Request for Service:** A call that results in the provision of a public safety service or response.

1.3.8 **Call-back:** The capability to re-contact the calling party.⁴

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² NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010
⁴ NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010
1.3.9 **Cognitive and Performance-Based Learning Activities:** Training activities that stimulate learning: Cognitive learning occurs primarily through exposure to logically presented information. Performance-based learning occurs when trainees are given opportunities to experience simulated or actual activities that involve the skills related to the learning objective.

1.3.10 **Communications Assistant (CA):** A communications assistant is an employee of the Telecommunications Relay Service (TRS) provider who transliterates conversation from text to voice and from voice to text between two end users of TRS.\(^5\)

1.3.11 **Deaf:** Partial or complete hearing loss. A deaf person, in medical terms, may have severe to profound hearing loss. When referencing the Deaf community, this refers to people who use American Sign Language, SEE (Signing Exact English), and CASE, (Conceptually Accurate Signed English) language as a primary means of communication.

1.3.12 **Deaf-Blind:** A term used to describe a person with some hearing and vision loss. S/he may have either total or partial loss of hearing and sight.

1.3.13 **Department of Justice (DOJ):** A branch of the Federal Government legislated to oversee compliance of Title II of the ADA.\(^6\)

1.3.14 **Detection equipment:** A device, commonly referred to as a TTY/TDD Detector, which connects directly to the telephone line and monitors the line for the sounds of incoming TTY (Baudot and ASCII code) tones. When the TDD Detector recognizes TTY tones on the phone line, it announces the incoming TTY call and automatically sends a TTY message to the caller to let them know the call has been answered.

1.3.15 **Direct access:** PSAP’s must be able to directly receive TTY calls without relying on an outside relay service or third party services.\(^7\)

1.3.16 **Disability:** The term "disability" means, with respect to an individual (A) a physical or mental impairment that substantially limits one or more major life activities of such individual; (B) a record of such an impairment; or (C) being regarded as having such an impairment.\(^8\)

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\(^6\) NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010

\(^7\) Department of Justice, Americans with Disabilities Act: Access for 9-1-1 and Telephone Emergency Services

\(^8\) Americans with Disabilities Act of 1990 (ADA), as amended, P.L. 110-325
1.3.17 **Equal Access:** Equal Access requires that 9-1-1 services provided for individuals who use TTY/TDD be as effective as those provided for individuals who make other calls.\(^9\)

1.3.18 **Hard of Hearing:** The term “hard of hearing” refers to those who have some hearing. A hard of hearing person, in medical terms, may have a mild to moderate hearing loss.

1.3.19 **Hearing Carry-Over (HCO):** People with speech impairments who are not deaf or hard of hearing often prefer HCO. HCO allows them to type their words on a TTY to call takers and hear call takers’ spoken responses through their handset. HCO can be accomplished by a call taker using standard stand-alone TTY equipment by alternating speaking into the handset and placing the handset in the TTY when the caller types a response.\(^10\)

1.3.20 **Integrated TTY:** Refers to TTY functionality that has been integrated within a computer workstation. This may be found within the 9-1-1 telephony system or interfaced in a CAD (Computer Aided Dispatch) system.\(^11\)

1.3.21 **Inter-Center Testing:** This is a testing mechanism by which call takers make test calls to other PSAP’s to test their proficiency.\(^12\)

1.3.22 **Internet Protocol Relay Service (IP Relay Service):** A text-based communication service that allows a person who is deaf, deaf-blind, hard of hearing or has speech disabilities to communicate with any telephone user via a Communication Assistant (CA) at a relay service call center using an Internet connection. IP Relay is accessed using a computer or wireless handheld device and the Internet, rather than a TTY and a landline telephone.

1.3.23 **Intra-Center Testing:** This is a testing mechanism by which call takers make test calls from position to position within the Center utilizing the internal telephony system.\(^13\)

1.3.24 **Knowledge:** Fundamental understanding one must have in order to perform a specific task.

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\(^9\) Department of Justice, Americans with Disabilities Act: Access for 9-1-1 and Telephone Emergency Services

\(^10\) Department of Justice, Americans with Disabilities Act: Access for 9-1-1 and Telephone Emergency Services

\(^11\) NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010

\(^12\) NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010

\(^13\) NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010
1.3.25 **Open line**: Call in which no one is speaking or typing but the calltaker can hear the presence of any background sounds.

1.3.26 **Public Safety Answering Point (PSAP)**: A facility equipped and staffed to receive emergency and non-emergency calls requesting police, fire, emergency medical, and other public safety services via telephone and other communication devices.

1.3.27 **Public Safety Communications Center (PSCC)**: A public safety entity (which may include a PSAP or be referred to as an Emergency Communications Center or communications center) where emergency calls for service or 9-1-1 phone calls culminate, and/or where calls for service are dispatched to public safety service providers.

1.3.28 **Public Safety Communications Personnel**: Trained individuals in a public safety communications center responding to calls for a public safety service or response.

1.3.29 **Quality Assurance Process**: A formal assessment process by which actual performance, behavior and outcomes are compared against established standards to ensure compliance, consistency, and accuracy in the delivery of quality service.

1.3.30 **Rehabilitation Act of 1973, Section 504**: A federal law that protects qualified individuals from discrimination based on their disability. The nondiscrimination requirements of the law apply to employers and organizations that receive financial assistance from any Federal department or agency.\(^{14}\)

1.3.31 **Relayed Calls**: A Telecommunications Relay Service (TRS) call in which the person uses a TTY/TDD or other text or video input device to call the TRS relay center, and gives a Communications Assistant (CA) the number of the party that he or she wants to call. The CA in turn places an outbound traditional voice call to that person. The CA then serves as a link for the call, relaying the text or sign language of the calling party in voice to the called party, and converting to text or sign language what the called party voices back to the calling party.\(^{15}\)

1.3.32 **Shall**: Within the context of this standard, “shall” indicates a mandatory requirement.

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\(^{15}\) Federal Communications Commission (FCC), [http://www.fcc.gov/cgb/consumerfacts/trs.html](http://www.fcc.gov/cgb/consumerfacts/trs.html)
1.3.33 **Should:** Within the context of this standard, “should” indicates a recommendation.

1.3.34 **Silent Calls:** Describes open line telephone calls in which no one is speaking or typing and the calltaker does not hear any background sounds.

1.3.35 **Speech Disability:** A Speech Disability is a communications disorder, such as stuttering, impaired articulation, language impairment or a voice impairment, which adversely affects a person’s ability to articulate speech clearly.

1.3.36 **Speech-to-Speech:** STS is a form of Relay Services that provides Communications Assistants (CAs) for people with speech disabilities who have difficulty being understood on the phone.\(^\text{16}\)

1.3.37 **Telecommunications Relay Service (TRS):** A federally mandated service provided by states that provides communication relay between TTY users and voice telephone users, via a third party, for communications assistance.\(^\text{17}\)

1.3.38 **Trainee:** A public safety communications employee (new or veteran) being trained in any one of the programs under the direction of the Training Coordinator.

1.3.39 **TRS Hearing-Carry Over (HCO):** A type of TRS call that allows a person with a speech disability, but who wants to use his/her own hearing, to listen to the called party and type his/her part of the conversation on a TTY. The CA reads these words to the called party, and the caller hears responses directly from the called party.\(^\text{18}\)

1.3.40 **TRS Voice-Carry Over (VCO):** A type of TRS call that allows a person with a hearing disability, but who wants to use his or her own voice, to speak directly to the called party and receive responses in text from the CA. The calling party requires no typing. This service is particularly useful to senior citizens who have lost their hearing, but who can still speak.\(^\text{19}\)

1.3.41 **TTY/TDD:** (Teletypewriter/Telecommunications Device for the Deaf): A device capable of information interchange between compatible units using a dial up or private-line telephone network and Voice over Internet Protocol (VoIP)


\(^\text{17}\)NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010


connections as the transmission mediums. ASCII tones or Baudot codes are used by these units. (per EIA PN-1663)²⁰

1.3.42 **Voice announcer:** A feature on some TTYs which uses a computerized voice message to announce to the called party that a TTY call is being received.

1.3.43 **Voice Carry Over (VCO):** It is a communication hybrid of TTY and voice. VCO allows a person with hearing loss to speak directly to the call taker and read the response that is typed back. Many persons who became deaf or hard of hearing later in life prefer to speak instead of type. They use what is called called voice carryover (VCO). With VCO, the caller speaks directly into the phone, and the call taker types back via TTY to the caller. VCO can be accomplished with standard stand-alone TTY equipment simply by having the call taker alternate between listening on the handset when the caller is speaking and placing the handset in the TTY couplers to type a response.²¹

1.3.44 **Voice over Internet Protocol (VoIP):** A technology that allows you to make voice calls using a broadband Internet connection instead of a regular (or analog) phone line. Some VoIP services may only allow you to call other people using the same service, but others may allow you to call anyone who has a telephone number - including local, long distance, mobile, and international numbers. Also, while some VoIP services only work over your computer or a special VoIP phone, other services allow you to use a traditional phone connected to a VoIP adapter.²²

1.3.45 **Volunteer TTY/TDD Caller Testing:** An outreach program to the deaf community which asks for volunteers to call 9-1-1 and other emergency numbers with test calls, based on a defined set of procedures and expectations, in an effort to ensure equipment functionality and enhance call taker proficiencies where it concerns utilizing TTYs. Also known as the Phone Pals Program.²³

1.3.46 **Video Interpreter/Communication Assistant (VI/CA):** In a Video Relay Service (VRS) call, the CA is a skilled sign language interpreter referred to as a Video Interpreter (VI) who can see the caller via a video device and an internet connection. The VI interprets and relays between the American Sign Language (ASL) user and the speaking person. In an IP Relay call, the Communication Assistant (CA) relays back and forth between the text user and the speaking person.

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²⁰ NENA Master Glossary of 9-1-1 Terminology NENA 00-001, Version 14, September 29, 2010
²¹ Department of Justice, Americans with Disabilities Act: Access for 9-1-1 and Telephone Emergency Services
²³ NENA 52-501 Phone Pals
1.3.47 **Video Relay Service (VRS):** Enables a person who is deaf, deaf-blind, hard of hearing or has speech disabilities to use sign language or speech reading to communicate with any telephone user via a Video Interpreter (VI) at a relay service call center. The user has a videophone or webcam connected to a video relay service call center using an internet connection.

1.3.48 **Syntax:** The study of rules that govern the ways words combine to form phrases, sentences, and clauses.

* Definitions are informative and not considered part of the ANS.

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**Chapter 2**  
**Agency Responsibilities**

2.1 **Scope**  
While the majority of this document addresses the training standard associated with a Telecommunicators effective processing of TTY calls, this chapter outlines the agency’s responsibilities for providing training to both new and veteran Telecommunicators in accordance with this standard.

2.2 **General Agency Responsibilities**

2.2.1 The Agency shall establish no less than these minimum training requirements while complying with all local, state, federal, and tribal laws.  

2.2.2 The Agency shall define the baseline qualifications in addition to requisite cognitive, affective, and psychomotor skills needed to achieve compliance with this standard.

2.2.3 The Agency shall provide Telecommunicators with written directives related to effectively processing TTY calls.

**Training**

2.2.4 The Agency shall provide the Telecommunicator with comprehensive training which shall include information about the requirements of the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act for telephone emergency service providers.

2.2.5 The Agency shall provide the Telecommunicator with appropriate cognitive and performance-based learning activities and performance evaluations as a part of

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the comprehensive training described in this standard to ensure students understand and can apply the information addressed throughout this standard.

2.2.6 The Agency shall provide the Telecommunicator with information about communication issues regarding individuals who are deaf, deaf-blind, hard of hearing, or people who have a speech disability, including information about American Sign Language (ASL).

2.2.7 The Agency shall provide the Telecommunicator with practical instruction on identifying and processing TTY/TDD calls including:
   2.2.7.1 The importance of recognizing silent or open line TTY/TDD calls, and
   2.2.7.2 Using proper syntax, abbreviations, and protocol when responding to TTY/TDD.

2.2.8 The Agency shall provide the Telecommunicator with hands-on experience in TTY/TDD (in classroom or during the shift) by evaluating and documenting that training.

2.2.9 The Agency shall make comprehensive initial TTY training mandatory for all personnel who may have contact with individuals from the public who are deaf, deaf-blind, hard of hearing or have a speech disability.

2.2.10 The Agency may utilize a variety of ADA and TTY-related topics for training, to include but not be limited to:
   2.2.10.1 Abbreviations and etiquette,
   2.2.10.2 Crimes against people with disabilities,
   2.2.10.3 Disability awareness (a review of physical, visual and communications-related disabilities, Alzheimer’s awareness and aphasia & other stroke-related conditions),
   2.2.10.4 Disasters & people with disabilities,
   2.2.10.5 Emerging technologies and services,
   2.2.10.6 English vs. ASL gloss,
   2.2.10.7 Handling Voice carry-over (VCO) & Hearing carry-over HCO calls, as well as Speech to Speech (STS),
   2.2.10.8 Legal updates,
   2.2.10.9 Next Generation 9-1-1 & TTY,
   2.2.10.10 Procedures for Telecommunications Relay Services (TRS) calls,
   2.2.10.11 PSAP technology specific TTY features
   2.2.10.12 TTY/TDD call recognition & processing,
   2.2.10.13 TTY/TDD protocol, and
   2.2.10.14 TTY call processing written directives.
2.2.11 The Agency may utilize a variety of ADA and TTY-related interactive resources to accomplish training requirements, to include but not be limited to:
   2.2.11.1 NENA E-PASS, and
   2.2.11.2 State and local organizations/agencies for the deaf, deaf-blind, hard of hearing or people who have a speech disability.

2.2.12 The Agency shall provide for a comprehensive TTY proficiency testing program that includes, but is not limited to:
   2.2.12.1 The Agency shall evaluate the trainee for proficiency in recognizing and handling the following types of calls, in accordance with agency written directives:
      2.2.12.1.1 Silent calls,
      2.2.12.1.2 Open line calls,
      2.2.12.1.3 Long steady high-pitch tones (ASCII handshake when turning on the TTY/TDD equipment),
      2.2.12.1.4 Short beeping tones, and Baudot,
      2.2.12.1.5 Voice announcer, and
      2.2.12.1.6 TTY Detector.

   2.2.12.2 The Agency shall evaluate the trainee on processing the following TTY/TDD call types:
      2.2.12.2.1 Hearing Carry Over (HCO),
      2.2.12.2.2 Relay Service calls
      2.2.12.2.3 TTY/TDD-to-TTY/TDD
      2.2.12.2.4 Voice Carry Over (VCO), and
      2.2.12.2.5 Other (eg., Emerging Technologies, etc.)

   2.2.12.3 The Agency shall evaluate the trainee on the use of effective communication with callers using a range of English skills to American Sign Language Gloss.

   2.2.12.4 The Agency shall evaluate the trainee on use TTY/TDD protocol, such as:
      2.2.12.4.1 Abbreviations,
      2.2.12.4.2 Etiquette, and
      2.2.12.4.3 Language.

   2.2.12.5 The Agency shall evaluate the trainee on TTY/TDD call interrogation SOPs for gathering pertinent call-specific information.
2.2.12.6 The Agency shall evaluate the trainee’s ability to perform TTY/TDD troubleshooting and reporting procedures.

2.2.12.7 The Agency shall evaluate the trainee on TTY/TDD call documentation.

2.2.12.8 The Agency shall evaluate the trainee on the initiation of a public safety response based on the information gathered during the TTY/TDD call.

2.2.12.9 The Agency shall evaluate the trainee on TTY/TDD call transfer procedures using the PSAP’s primary and backup TTY equipment.

2.2.12.10 The Agency shall evaluate the trainee on the initiation of TTY/TDD calls, for call-back purposes, using the PSAP’s primary and backup TTY equipment.

2.2.13 The Agency shall establish a record keeping system to document TTY-related training, written directives, and evaluation methods.

2.2.14 The Agency shall maintain detailed records for each individual Telecommunicators’ initial and in-service TTY training, to include but not limited to:

- 2.2.14.1 Certificate of completion or other proof of attendance,
- 2.2.14.2 Number of training hours/time and date of training,
- 2.2.14.3 Performance evaluation records,
- 2.2.14.4 Trainee basic demographic information,
- 2.2.14.5 Title of any training courses/activities, and
- 2.2.14.6 Written test scores, if applicable.

2.2.15 The Agency shall maintain training course files on each training event, to include but not limited to:

- 2.2.15.1 Course schedule/outline,
- 2.2.15.2 Lesson plans, teaching guides or any detailed information on topics covered,
- 2.2.15.3 List of attendees/course roster,
- 2.2.15.4 Handouts, scenarios, activities, skills sheets, etc.,
- 2.2.15.5 Name and contact information for course instructors,
- 2.2.15.6 Title of course, seminar or training activity, and
- 2.2.15.7 Total number of hours of training.
2.2.16 The Agency shall provide the Telecommunicator with information on how and to whom they may address training issues and concerns.

2.2.17 The Agency shall provide the Telecommunicator with training and continuing education and opportunities that will allow the individual to maintain and/or enhance their knowledge, skills, and abilities as defined in Chapter Four (General Knowledge and Skills).

2.2.18 The Agency shall establish detailed and defined performance expectations, providing and ensuring a clear understanding of those expectations.

2.2.19 The Agency shall have an established mechanism by which the TTY-related job performance of the Telecommunicator is regularly reviewed and evaluated, at a minimum of every six months, based upon accepted quality assurance or improvement practices or standards.

2.2.20 The Agency shall ensure that Telecommunicators meet performance objectives and document such as part of the employee’s annual performance evaluation.

2.2.21 The Agency shall ensure that Telecommunicators appropriately identify various types of Telecommunications Relay Services (TRS) calls.

2.2.22 The Agency shall document and address unacceptable performance with additional training and coaching of the Telecommunicator in a timely manner.

2.2.23 The Agency shall ensure a fair and consistent application of a disciplinary process associated with TTY-related performance.

**Refresher Training**

2.2.24 The Agency shall make TTY/TDD refresher training available to any personnel who have contact with individuals from the public who are deaf, deaf-blind, hard of hearing or people who have a speech disability. This training shall occur as often as training for voice calls but at a minimum, every six months.\(^2\)

2.2.24.1 The Agency may accomplish and document refresher training using a variety of training methods, to include but not be limited to:

- 2.2.24.1.1 Classroom and/or skills lab training,
- 2.2.24.1.2 Roll call/briefings,
- 2.2.24.1.3 Seminars,
- 2.2.24.1.4 Structured, independent studies,
- 2.2.24.1.5 TTY Equipment testing evaluations, and

\(^2\) Americans with Disabilities Act (1990) and ADA Amendments Act (2008).
Chapter 3 Organizational Integrity

3.1 Scope
This chapter discusses issues related to an organization’s values and beliefs. Topics include: mission statements and organizational structures and obligations of the Telecommunicators scope of profession, authority, confidentiality, and liability.

3.2 The Telecommunicator shall demonstrate an understanding of the Agency’s mission, values, and goals as it relates to providing direct and equal access to people with disabilities.

3.3 The Telecommunicator shall be able to articulate the Agency’s expectations of professional conduct related to recognizing, processing, and dispatching calls for people with disabilities.

3.4 The Telecommunicator shall demonstrate proper application of the Agency written directives regarding providing services to people with disabilities and individuals who are deaf, deaf-blind, hard of hearing or people who have a speech disability.

3.5 The Telecommunicator shall adhere to applicable local, state, tribal, or federal statutes and codes as appropriate.

3.6 The Telecommunicator shall demonstrate comprehension and application of diversity awareness and an active commitment to ensure equality, per Agency written directives.

Chapter 4 General Knowledge and Skills

4.1 Scope
This chapter provides an overview of the general knowledge and skills that are common among high performing incumbent Telecommunicators specific to providing services to people with disabilities and individuals who are deaf, deaf-blind, hard of hearing or people who have a speech disability.

4.2 General Knowledge for the Telecommunicator
General areas of knowledge that have been identified for the Telecommunicator related to TTY/TDD. If the agency chooses to adopt these standards, training shall be provided to the Telecommunicator in the respective areas as deemed appropriate by the Agency. The Telecommunicator shall demonstrate comprehension in at least the following areas:

4.2.1 ADA-specific requirements of PSCCs for direct and equal access,
4.2.2 Agency operations,
4.2.3 Agency written directives,
4.2.4 Agency training standards and performance requirements,
4.2.5 Available Resource & References (ie, interpreters, equipment repair),
4.2.6 Applicable local, state, tribal, and/or federal standards and statutes and any applicable certification requirements,
4.2.7 Call Volume and Staffing Procedures,
4.2.8 Deaf culture and diversity awareness,
4.2.9 Employee complaint investigation and processing,
4.2.10 Legal concepts and risk assessment,
4.2.11 Record retention procedures,
4.2.12 Relevant public safety and homeland security initiatives specific to responses to People with Disabilities, 26
4.2.13 Technological systems: current systems used within the PSCC specific to primary and backup TTY equipment, emerging technologies and new trends, and
4.2.14 User Agency Defined Protocols (EMD, etc.).

4.3 General Skills of Telecommunicator

If the agency chooses to adopt these standards, training related to TTY/TDD shall be provided to all Telecommunicators in the respective areas as deemed appropriate by the Agency. High-performing incumbent Telecommunicators have been identified as demonstrating the following skills:

4.3.1 Active listening skills,
4.3.2 Analytical skills,
4.3.3 Critical thinking skills,
4.3.4 Decision-making skills,
4.3.5 Multi-mode communications skills (alternating voice, text),
4.3.6 Multi-tasking skills,
4.3.7 Operational skills,
4.3.8 Problem solving skills,
4.3.9 Reading comprehension skills,
4.3.10 Stress Management skills,
4.3.11 Telecommunicator skills, 27
4.3.12 Troubleshooting skills,
4.3.13 TTY Equipment and/or TTY computer skills,

26 For example, Local, state, national; ex NIMS, ICS, Tactical Interoperations Communications Plan (TICP), National Response Framework
27 Refer to APCO Minimum Training Standards for Public Safety Telecommunicator
4.3.14  Typing skills, and
4.3.15  Written and verbal communication skills.

Chapter 5  Tools, Equipment, and Technology

5.1  Scope
This chapter addresses the need for all Telecommunicators to demonstrate proficiency on all appropriate tools, equipment, and technology they may be expected to operate within the public safety communications center and/or training facilities.

5.2  The Telecommunicator shall demonstrate the ability to utilize tools, equipment, and technology as needed by a Public Safety Telecommunicator identified in APCO ANS Minimum Training Standards for Public Safety Telecommunicator.

5.3  The Telecommunicator shall demonstrate the ability to receive, process and initiate calls of an emergency and non-emergency nature utilizing the agency’s primary and backup TTY equipment, detection equipment, telephony equipment, records management system, and other related tools or equipment.

Chapter 6  Professional Competence

6.1  Scope
This chapter identifies those components within Public Safety Communications that are critical for enhancing the professional competence of all Public Safety Telecommunicators. While the Agency has some responsibility for supporting and facilitating the development of the Telecommunicators’ professional competence, this chapter places primary accountability upon the Telecommunicator.

6.2  The Telecommunicator shall complete training and maintain all certifications as required by national, state, local and Authority Having Jurisdiction (AHJ) directives.

6.3  The Telecommunicator shall take responsibility for their own professional career development by actively seeking opportunities to enhance their job knowledge and skills related to providing direct and equal access to public safety communications services to people with disabilities and individuals who are deaf, deaf-blind, hard of hearing or people who have a speech disability.

6.4  The Telecommunicator shall comply with federal, state, and local government regulations and department policy related to TTY/TDD.
6.5 The Telecommunicator shall demonstrate the ability to meet and/or exceed the TTY-related performance standards set by the Agency.

6.6 The Telecommunicator shall demonstrate competency of the skills as detailed in Chapter Four, Section 4.3: General Skills for Telecommunicators.

6.7 The Telecommunicator shall actively seek feedback and review of their performance, including during the agency’s established quality assurance or quality improvement process.

6.8 The Telecommunicator shall demonstrate the ability to operate within all written directives and plans regarding operations established by and for the Agency.

6.8.1 The Telecommunicator shall demonstrate a general working knowledge of agency TTY-related operations including, but not limited to, calltaking, and other related job duties.

6.8.2 The Telecommunicator shall demonstrate the appropriate application of written directives and plans.

6.8.3 The Telecommunicator is encouraged to provide recommendations or feedback for complying with written directives, and plans when appropriate.

Chapter 7 Core Competencies of the Telecommunicator

7.1 Scope
This chapter addresses the core competencies and minimum training requirements for the successful performance of the duties of a Telecommunicator in regards to providing public safety services to individuals who are deaf, deaf-blind, hard of hearing or have a speech disability or other disabilities.

7.2 The Telecommunicator shall demonstrate the ability to provide emergency telephone services to individuals who are deaf, deaf-blind, hard of hearing or have a speech disability or other disabilities in compliance with all legal requirements, to include but not limited to:

7.2.1 The Telecommunicator shall demonstrate familiarity of any local, state, federal, and tribal regulations related to providing governmental services to people with disabilities, which include but are not limited to:
7.2.1.1 ADA Amendments Act (ADAAA) of 2008, 28
7.2.1.2 Americans with Disabilities Act (ADA) of 1990, Title II, 29 and
7.2.1.3 Rehabilitation Act of 1973, Section 504. 30

7.2.2 The Telecommunicator shall demonstrate the knowledge and competency of the
direct and equal access requirements established by the Department of Justice
(DOJ) in the following documents:
7.2.2.1 ADA: Access for 9-1-1 and Telephone Emergency Services, 31
7.2.2.2 ADA Toolkit, Chapter 4: 9-1-1 and Emergency Communications
Services, 32 and
7.2.2.3 ADA Toolkit, Chapter 4 Addendum: Title II Checklist. 33

7.2.3 The Telecommunicator shall demonstrate knowledge and awareness of liability
issues and other legal penalties for failure to provide direct and equal access.

7.2.4 The Telecommunicator shall demonstrate an understanding of and comply with
all departmental policies and procedures related to handling TTY/TDD calls.

7.3 The Telecommunicator shall demonstrate the ability to process emergency and non-
emergency calls for service for individuals who are deaf, deaf-blind, hard of hearing or
have a speech disability or other disabilities.

7.3.1 The Telecommunicator shall recognize that a disability may include, but not be
limited to:
7.3.1.1 Deaf,
7.3.1.2 Deaf-Blind,
7.3.1.3 Hard of hearing,
7.3.1.4 Late deafened,
7.3.1.5 Mild hearing loss,
7.3.1.6 Moderate hearing loss,
7.3.1.7 Profound hearing loss,
7.3.1.8 Severe loss, and
7.3.1.9 Speech disability.

28 http://www.access-board.gov/about/laws/ada-amendments.htm
29 http://www.ada.gov/
30 http://www.epa.gov/civilrights/sec504.htm
31 http://www.ada.gov/911ta.htm
32 http://www.ada.gov/pcatoolkit/chap4toolkit.htm
33 http://www.ada.gov/pcatoolkit/chap4chklist.htm
7.3.2 The Telecommunicator shall demonstrate the ability to communicate directly with callers via a TTY/TDD in English and American Sign Language (ASL) gloss.

7.3.3 The Telecommunicator shall demonstrate the ability to communicate indirectly through a Telecommunications Relay Service (TRS) with callers who have a disability but do not use TTY/TDD equipment to communicate.

7.4 The Telecommunicator shall demonstrate the ability to utilize the Agency’s primary and backup TTY/TDD equipment to interact with citizens who use TTY/TDDs to communicate via the telephone and process calls for service.

7.5 The Telecommunicator shall demonstrate the ability to use stand-alone TTY/TDD equipment, in both acoustic couplers and/or direct connect mode.

7.6 The Telecommunicator shall demonstrate the use of integrated TTY/TDD equipment, as applicable.

7.7 The Telecommunicator shall demonstrate TTY/TDD troubleshooting procedures.

7.8 The Telecommunicator shall demonstrate the comprehension and use of TTY/TDD detection equipment, as applicable.

7.9 The Telecommunicator shall demonstrate the knowledge of voice announcers and pre-programmed message functions of standalone and integrated TTY/TDD equipment, as applicable.

7.10 The Telecommunicator shall demonstrate the procedures for documenting and integrating the TTY/TDD call information into Computer Aided Dispatch and Records Management Systems, if applicable.

7.11 The Telecommunicator shall demonstrate the ability to conduct, participate in and document the following TTY equipment test calls, but not be limited to:

7.11.1 Intra-Center Testing,
7.11.2 Inter-Center Testing,
7.11.3 NENA TTY Call Taker Proficiency and Quality Assurance 52-003, and
7.11.4 Volunteer TTY/TDD Caller Testing.

7.12 The Telecommunicator shall demonstrate the ability to process calls originating from various types of consumer TTY/TDD equipment used for emergency call handling:

7.12.1 Portable/compact units,
7.12.2 Public TTY/TDDs,
7.12.3 Standalone,
7.12.4 Text/SMS
7.12.5 Web-based TTY

7.13 The Telecommunicator shall identify TTY/TDD call recognition:

7.13.1 Detection equipment,
7.13.2 Long steady high-pitch tones (ASCII handshake when turning on the TTY/TDD equipment),
7.13.3 Open lines,
7.13.4 Short beeping tones, and Baudot,
7.13.5 Silent calls,
7.13.6 Turbo Code or enhanced TTY/TDD, and
7.13.7 Voice announcer.

7.14 The Telecommunicator shall demonstrate the use of TTY/TDD protocols, such as abbreviations, language, and etiquette.

7.15 The Telecommunicator shall demonstrate recognition and use of abbreviations (see Appendix A) commonly used in TTY/TDD calls.

7.16 The Telecommunicator shall translate key phrases from English to ASL Gloss.

7.17 The Telecommunicator shall translate key phrases from ASL Gloss to English.

7.18 The Telecommunicator shall demonstrate the knowledge of TTY/TDD call transfer procedures.

7.19 The Telecommunicator shall demonstrate the knowledge of the procedures for initiating a TTY/TDD call in cases of call disconnection and/or the need to call-back a reporting party.

7.20 The Telecommunicator shall demonstrate the knowledge of the procedures for responding to Voice Carry Over (VCO) requests directly from callers.

7.21 The Telecommunicator shall demonstrate the knowledge of the procedures for responding to Hearing Carry Over (HCO) requests directly from callers.

7.22 The Telecommunicator shall demonstrate knowledge of the procedures for handling various types of calls from Telecommunications Relay Services (TRS):
7.22.1 Hearing Carry Over (HCO),
7.22.2 Internet Protocol (IP) relay,
7.22.3 Speech-to-Speech,
7.22.4 TTY-to-Voice,
7.22.5 Video Relay Services (VRS), and
7.22.6 Voice Carry Over (VCO).

** END of APCO/NENA ANS 3.105.1-2015**

References and Appendices*
Minimum Training Standard for TDD/TTY Use in the Public Safety Communications Center

Reference A:
U.S. Department of Justice - Americans with Disabilities Act - ADA HOME PAGE.  

Reference B:

Reference C:
**Project Civic Access:** A program by the Department of Justice to conduct reviews of local and state governments in an “effort to ensure that counties, cities, towns, and villages comply with the ADA by eliminating physical and communication barriers that prevent people with disabilities from participating fully in community life.  

APPENDICES A: *TTY Quick Reference Card*

APPENDICES B: *TTY Performance Evaluation Instructor Guidelines*

*The "References and Appendices" page is informative material and not a part of this American National Standard (ANS)*

NOTES*: 

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34 http://www.ada.gov/
35 http://www.ada.gov/911ta.htm
36 Department of Justice, Civic Project Access, http://www.ada.gov/civicac.htm
## TTY Quick Reference Card

### Proper TDD Protocol
- **GA** – go ahead
- **QGA** – question that you want answered immediately
- **GASK** – indicates you have all necessary information and have no more questions
- **SKSK** – officially ends a TTY call

### Common Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>ANS</td>
<td>answer</td>
</tr>
<tr>
<td>NBR</td>
<td>number</td>
</tr>
<tr>
<td>U</td>
<td>you</td>
</tr>
<tr>
<td>PH</td>
<td>phone</td>
</tr>
<tr>
<td>CUD</td>
<td>could</td>
</tr>
<tr>
<td>INFO</td>
<td>information</td>
</tr>
<tr>
<td>MSG</td>
<td>message</td>
</tr>
<tr>
<td>WUD</td>
<td>would</td>
</tr>
<tr>
<td>BLDG</td>
<td>building</td>
</tr>
<tr>
<td>R</td>
<td>are</td>
</tr>
<tr>
<td>DR</td>
<td>doctor</td>
</tr>
<tr>
<td>AMBO</td>
<td>ambulance</td>
</tr>
<tr>
<td>THX</td>
<td>thanks</td>
</tr>
<tr>
<td>OPR</td>
<td>operator</td>
</tr>
<tr>
<td>ENUF</td>
<td>enough</td>
</tr>
<tr>
<td>CLR</td>
<td>clear</td>
</tr>
<tr>
<td>CUZ</td>
<td>cause</td>
</tr>
<tr>
<td>UR</td>
<td>your</td>
</tr>
<tr>
<td>HLD</td>
<td>hold</td>
</tr>
<tr>
<td>IMPT</td>
<td>important</td>
</tr>
<tr>
<td>CUL</td>
<td>see later</td>
</tr>
<tr>
<td>XXXXX</td>
<td>error</td>
</tr>
<tr>
<td>MIN</td>
<td>minute</td>
</tr>
<tr>
<td>NP</td>
<td>no problem</td>
</tr>
<tr>
<td>DIFF</td>
<td>different</td>
</tr>
<tr>
<td>ASAP</td>
<td>as soon as possible</td>
</tr>
<tr>
<td>OIC</td>
<td>oh, I see</td>
</tr>
<tr>
<td>MED</td>
<td>medical or medicine</td>
</tr>
<tr>
<td>FONE</td>
<td>telephone</td>
</tr>
<tr>
<td>PLS</td>
<td>please</td>
</tr>
<tr>
<td>BSY</td>
<td>busy</td>
</tr>
<tr>
<td>THOT</td>
<td>thought</td>
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<tr>
<td>BRB</td>
<td>be right back</td>
</tr>
<tr>
<td>HLP</td>
<td>help</td>
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<td>HOSP</td>
<td>hospital</td>
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<tr>
<td>TMW</td>
<td>tomorrow</td>
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<td>NXT</td>
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<tr>
<td>RPT</td>
<td>report</td>
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<td>HOSPVAN</td>
<td>ambulance</td>
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<td>hospital</td>
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### Sample Key Questions/Phrases

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<tr>
<th>Question/Information Needed</th>
<th>English</th>
<th>American Sign Language</th>
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<tbody>
<tr>
<td><strong>ADDRESS</strong></td>
<td>Where is your emergency QQA</td>
<td>Live you where QQA</td>
</tr>
<tr>
<td></td>
<td>What is your address QQA</td>
<td>Where you now QQA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address where need ambo QQA</td>
</tr>
<tr>
<td><strong>PHONE NUMBER</strong></td>
<td>What is your phone number QQA</td>
<td>Phone you number QQA</td>
</tr>
<tr>
<td><strong>EMERGENCY/PROBLEM/COMPLAINT</strong></td>
<td>What is your emergency QQA</td>
<td>Problem what QQA</td>
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<td></td>
<td>Do you need police fire ambulance QQA</td>
<td>Wrong what QQA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Need you police fire ambo QQA</td>
</tr>
<tr>
<td><strong>NAME</strong></td>
<td>What is your name QQA</td>
<td>Name you what QQA</td>
</tr>
<tr>
<td><strong>TIME OF INCIDENT</strong></td>
<td>When did this happen QQA</td>
<td>Problem when QQA</td>
</tr>
<tr>
<td><strong>WHO’S INVOLVED</strong></td>
<td>Who is involved QQA</td>
<td>Hurt who QQA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>There who QQA</td>
</tr>
<tr>
<td><strong>DESCRIPTIONS</strong></td>
<td>What do they look like QQA</td>
<td>Look man how QQA</td>
</tr>
<tr>
<td><strong>WEAPONS/INJURIES</strong></td>
<td>Do they have guns, knives QQA</td>
<td>Gun knife they QQA</td>
</tr>
<tr>
<td></td>
<td>Is anyone hurt QQA</td>
<td>Gun knife see you QQ</td>
</tr>
<tr>
<td></td>
<td>How many people are hurt QQA</td>
<td>Hurt who QQA</td>
</tr>
<tr>
<td></td>
<td>Is your father conscious QQA</td>
<td>Hurt how many QQA</td>
</tr>
<tr>
<td></td>
<td>Is your father breathing ok QQA</td>
<td>Father awake QQA</td>
</tr>
<tr>
<td></td>
<td>How old is girl QQA</td>
<td>Father blow ok QQA</td>
</tr>
<tr>
<td></td>
<td>Is there any bleeding QQA</td>
<td>Age girl QQA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blood any QQA</td>
</tr>
<tr>
<td><strong>ADDITIONAL</strong></td>
<td>I dont understand GA</td>
<td>I dont understand GA</td>
</tr>
<tr>
<td></td>
<td>Please repeat last message GA</td>
<td>Message repeat GA</td>
</tr>
</tbody>
</table>
TTY Quick Reference Card

TTY Calls

**Silent Calls** – Query the line on all *silent calls* after two verbal attempts to communicate. Follow silent call procedures.

**Beeping Tones** – When answering the phone, *beeping tones* may be heard which indicates the caller may be using a TTY. Query the line using a TTY.

**TTY Detectors** – When answering a phone line, you may hear a recorded announcement that advises the you of an incoming TTY call which means you should query the line using a TTY.

**Voice Announcer** – When answering a phone line, you may hear a phrase such as *“Hearing impaired caller, use TDD”* which means you should query the line using a TTY.

TTY Call Variations

**Voice Carry Over (VCO)** – You may receive a request from a caller for VCO. This means the caller has a voice and can speak. They prefer to speak to you through the telephone handset and then have the communications officer type to them.

\[ VCO = \text{caller speaks/reads} \& \text{communications officer listens/types.} \]

**Hearing Carry Over (HCO)** – You may receive a request from a caller for HCO. This means the caller can hear but cannot speak. They prefer to type their side of the conversation and listen to you speak through the telephone handset.

\[ HCO = \text{caller listens/types} \& \text{communications officer speaks/reads.} \]

**Telephone Relay Service (TRS)** – You may receive a call through the Georgia Relay Service. When you are dealing with a relay service operator, it is important that you speak in *1st person* -- directly as if speaking to the caller. Remember to speak slowly since the relay operator will be typing everything that you say. Don’t forget to use *“go ahead”* when you want the caller to respond.

Resource Phone Numbers

_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________
_______________________________________________ __________________________

TTY Quick Reference Card
TTY Performance Evaluation
Instructor Guidelines
# TTY Testing Evaluation Checklist

<table>
<thead>
<tr>
<th>Student Name:</th>
<th>Date:</th>
<th>Scenario #:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaluator Name:</th>
<th>Call Type:</th>
<th>Format:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TTY</td>
<td>HCO</td>
</tr>
<tr>
<td></td>
<td>VCO</td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Identification Method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

## Evaluation Components

<table>
<thead>
<tr>
<th>Identification as a TTY Call &amp; Initial Response</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adherence to Call Type Procedures</td>
<td></td>
</tr>
<tr>
<td>Recognition and Response in Proper Language Format Syntax (ASL/English)</td>
<td></td>
</tr>
<tr>
<td>Use of Protocol, Abbreviations, Dialogue, &amp; Etiquette (GA Q QQ GASK SKSK)</td>
<td></td>
</tr>
<tr>
<td>Caller Interrogation (Pertinent Questions Asked)</td>
<td></td>
</tr>
<tr>
<td>Initiated Proper Public Safety Response</td>
<td></td>
</tr>
<tr>
<td>Performed Proper Troubleshooting &amp; Reporting Procedures</td>
<td></td>
</tr>
<tr>
<td>Documented TTY Call Information</td>
<td></td>
</tr>
<tr>
<td>Performed TTY Call Transfer (if applicable)</td>
<td>Yes</td>
</tr>
<tr>
<td>Initiated TTY Call Back (if applicable)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Total Points (32/40)**

**Evaluator Comments on Deficiencies/Problems**

**Plan of Action**

- [ ] Demonstrated proficiency – maintain training as schedule
- [ ] Failed to demonstrate proficiency - needs remedial training and further evaluation
- [ ] Failed to demonstrate proficiency - needs additional equipment practice and further evaluation

_________________________________________ ______________________________________
Student Signature     Evaluator Signature
APCO-NENA TTY/TDD Recommended Testing & Evaluation Guidelines

Rating Criteria

Instructions: The following rating criteria are used to determine the scores assigned to the student’s performance on the Evaluation Checklist on the previous page. The numbers to the left (1, 2, 3, 4, 5) are equal to point values to be used on the Evaluation Checklist. The narrative beside each number is meant to serve as a guide to the instructor in determining the appropriate score for each criteria based on the student’s performance in a given scenario.

Identification as a TTY/TDD Call & Initial Response

1. Did not recognize as TTY/TDD call and disconnected without further investigation.

2. Did not recognize as TTY/TDD call immediately and was delayed in providing initial response (greeting).

3. Recognized as TTY/TDD call, slow to respond with greeting or typed incomplete greeting.

4. Recognized as TTY/TDD call after several (2-3) verbal attempts and responded with correct greeting.

5. Immediately recognized as possible TTY/TDD call after several (2-3) verbal attempts, responded with a greeting which included agency name and a question or directed instruction for the TTY/TDD caller (example: Duvall 911 type your address GA or Duvall 911 live you where QQGA).

Adherence to Call Type Procedures

1. Did not recognize call type properly and failed to follow appropriate procedures.

2. Did not recognize call type immediately and was delayed in employing proper procedures.

3. Recognized call type but was slow to respond using the proper procedures.

4. Recognized call type and responded with proper procedures.

5. Immediately recognized call type and implemented call procedures with no hesitation or errors.
Recognition and Response in Proper Language Format Syntax (ASL/English)

1. Did not identify or use the proper syntax for this call as established by the scenario.
2. Identified proper syntax but did not communicate using appropriate format.
3. Identified the proper syntax but was delayed in response while converting to correct syntax or reverted to other syntax (more than two uncorrected mistakes).
4. Used proper syntax and format with little delay without reverting to the other syntax more than twice.
5. Used proper syntax and format with no delay and no uncorrected mistakes.

Use of Protocol, Abbreviations, Dialogue, & Etiquette (GA Q QQ GASK SKSK)

1. Did not use proper protocol, abbreviations; failed to use proper dialogue and etiquette.
2. Used some protocol but did not use it appropriately; failed to use proper dialogue and etiquette.
3. Used protocol on most occasions with more than two uncorrected mistakes; mostly used proper dialogue and etiquette.
4. Used proper protocol with less than two uncorrected mistakes; used proper dialogue and etiquette with few mistakes.
5. Used proper protocol, dialogue and etiquette with no uncorrected mistakes.

Caller Interrogation (Pertinent Questions Asked)

1. Did not ask pertinent questions.
2. Did not ask pertinent questions in a timely manner or in order of importance.
3. Asked some pertinent questions but did not ask enough questions relative to call type.
4. Asked all pertinent questions necessary in order of importance.
5. Asked all pertinent questions necessary in order of importance and directed caller of actions to take or actions not to take while waiting on responding units. Reassured caller that help was being sent.
Initiated Proper Public Safety Response

1. Did not initiate proper public safety response.

2. Did not immediately or accurately identify public safety need but initiate some form of public safety response.

3. Did not immediately identify public safety need; was delayed in initiating appropriate public safety response.

4. Recognized public safety need accurately; initiated dispatch of appropriate public safety response.

5. Immediately recognized accurate public safety need; initiated dispatch of public safety response without delay.

Performed Proper Troubleshooting & Reporting Procedures

1. Did not troubleshoot technical issues during call; failed to report technical issues.

2. Did not immediately troubleshoot technical issues during call; failed to report technical issues.

3. Did troubleshoot technical issues during call; failed to report.

4. Did troubleshoot technical issues during call; reported technical issues as required.

5. Immediately performed troubleshooting procedures; took measures to overcome technical issues; reported technical issues immediately.

Documented TTY/TDD Call Information

Yes/No  Call taker documented all pertinent call information.

Performed TTY/TDD Call Transfer (if applicable)

Yes/No  Call taker successfully performed TTY/TDD call transfer.

Initiated TTY/TDD Call Back (if applicable)

Yes/No  Call taker successfully initiated TTY/TDD call back.
TTY Practice & Performance Scenario

On the following pages, you will find a series of practice and performance scenarios for use in administering performance examinations related to the TTY training described in this standard. These scenarios are meant to serve as a guide to assist instructors in developing their own scenarios with relevant information, addresses, and supplemental information conducive to your jurisdiction, procedures and protocols.

It is important for instructors to present scenarios which include a variety of:

- Call types (TTY-to-TTY, VCO, HCO, Relay Service, etc)
- English and ASL messages
- Notification methods (silent, open line, tones, voice announcer, detectors)
- Announced (planned testing) and unannounced calls
- Relevant call handling procedures such as transfers and call-back.
# TTY Practice Scenario

<table>
<thead>
<tr>
<th>Practice Scenario # 1</th>
<th>ASL Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>HLP PLS NEED MEDICL VAN 5423 WILLOW WALK NEXT KENNEDY DR</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>Please send an ambulance to 5423 Willow Walk (near Kennedy Drive).</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>MARY AWAKE NO RIDE BIKE THEN FALL TRUE HURT HURRY PLS</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>Your child has fallen and is not conscious. She fell off her bicycle.</td>
</tr>
</tbody>
</table>

## Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Ellen St. Michaels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phone Number:</strong></td>
<td>383-4226</td>
</tr>
<tr>
<td><strong>Child’s Age:</strong></td>
<td>Eight (8)</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Practice Scenario # 2</th>
<th>English Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>Please send police to 1137 Fall Court (near Loren Road).</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>You came home to find that your back door was standing open into the kitchen. You are in the kitchen but are scared to stay in the house.</td>
</tr>
</tbody>
</table>

**Additional Information**

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Bill Andrews</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>952-1826</td>
</tr>
<tr>
<td>Other:</td>
<td>No one else should be home at this time.</td>
</tr>
<tr>
<td>Practice Scenario # 3</td>
<td>English Format</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>I think someone is trying to break into my house.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>You are home alone and you saw someone look through the window. Now they are trying to get in through the back door. The only description is white male with blue cap and white shirt. (Give only if asked)</td>
</tr>
</tbody>
</table>

**Additional Information**

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Peggy Whitehall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>374-4646</td>
</tr>
<tr>
<td>Address:</td>
<td>4979 Jefferson Street (near Apple Way)</td>
</tr>
</tbody>
</table>
# TTY Practice Scenario

**Practice Scenario # 4**

<table>
<thead>
<tr>
<th>Practice Scenario # 4</th>
<th>ASL Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td><strong>HELP PLS THERE IS FRE ON HOUSE</strong></td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>Help please, my house is on fire.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td><strong>SONS ASLEEP WOKE UP SEE KITCHEN HAS FIRE</strong></td>
</tr>
<tr>
<td></td>
<td>You woke up to find your kitchen on fire. You are home with your two children (ages 3 and 6).</td>
</tr>
</tbody>
</table>

## Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Lewis English</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>653-1246</td>
</tr>
<tr>
<td>Address:</td>
<td>959 Wood Street (near Memorial Street)</td>
</tr>
</tbody>
</table>
## TTY Practice Scenario

### Practice Scenario # 5

<table>
<thead>
<tr>
<th>Initial Complaint:</th>
<th>Help please, my husband is having trouble breathing. I think he needs an ambulance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem:</td>
<td>You were about to go to bed when your husband started experiencing shortness of breath and it has now gotten worse. He has no history of similar medical problems.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Diane Kingston</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>498-5156</td>
</tr>
<tr>
<td>Address:</td>
<td>3582 Cherry Street (near Bush Drive).</td>
</tr>
<tr>
<td>Patient Age:</td>
<td>58 years of age</td>
</tr>
</tbody>
</table>
## TTY Practice Scenario

<table>
<thead>
<tr>
<th>Practice Scenario # 6</th>
<th>ASL Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>DAUGHTER FALL SWING HEAD HIT BLOOD BLOOD NEED DOC</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>Help please, my daughter was playing on the swing set. She fell and is bleeding from the head. I think he/she needs an ambulance.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>CAR NONE BUT DAUGHTER HAS LOW BLOOD</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>I do not have a car. My daughter is anemic.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Debbie Chambers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>483-5326</td>
</tr>
<tr>
<td>Address:</td>
<td>711 11th Street (near Dollison Street)</td>
</tr>
<tr>
<td>Patient Age:</td>
<td>5 yoa</td>
</tr>
<tr>
<td>Other:</td>
<td>You are deaf. Your daughter is not deaf.</td>
</tr>
</tbody>
</table>
# TTY Testing Scenario

## Test Scenario # 1

<table>
<thead>
<tr>
<th>Initial Complaint:</th>
<th>AMBO NEED 958 SUNSET DRIVE AND NORMAL AVE ST HURRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation:</td>
<td>Please send an ambulance to 958 Sunset Drive (near Normal Avenue).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Problem:</th>
<th>BRIAN DRINK BLEACH HOW MUCH NOT KNOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation:</td>
<td>Your child has swallowed bleach. You don’t know how much.</td>
</tr>
</tbody>
</table>

## Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Steve Hancock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>383-8966</td>
</tr>
<tr>
<td>Address:</td>
<td>958 SUNSET DRIVE</td>
</tr>
<tr>
<td>Patient Age:</td>
<td>8 yoa</td>
</tr>
<tr>
<td>Other:</td>
<td>You are the only other person there. You use sign language and cannot speak.</td>
</tr>
</tbody>
</table>
## TTY Testing Scenario

<table>
<thead>
<tr>
<th>Test Scenario # 2</th>
<th>English Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>Please send police to 1001 Quince Drive (near Holden Road). You need help.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>You came home to find that your son unconscious. There is a pill bottle next to him that is empty but you are not sure what or how much was in it. You cannot wake him up.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Betsy Anderson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>952-9376</td>
</tr>
<tr>
<td>Address:</td>
<td>1001 Quince Drive</td>
</tr>
<tr>
<td>Patient Age:</td>
<td>15 yoa</td>
</tr>
<tr>
<td>Other:</td>
<td>No one else is home at this time. You are hard of hearing but can read lips. You prefer written communications.</td>
</tr>
<tr>
<td>Test Scenario # 3</td>
<td>ASL Format</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>SEE MAN WINDOW OUTSIDE NOW DOOR KITCHEN HELP PLS SCARED</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>I think someone is trying to break into my house.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>NOW IN FRONT ROMM ONLY ME AN VERY SCARED CANT SEE AT KITCHEN DOOR</td>
</tr>
<tr>
<td><strong>Translation:</strong></td>
<td>You are home alone and you saw someone look through the kitchen window. Now they are trying to get in through the kitchen door. You have run to the living room to use the phone. You cannot see the kitchen door anymore and do not know if they have gotten in. You are deaf and cannot hear anything.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Complainant Name:</strong></td>
</tr>
<tr>
<td><strong>Phone Number:</strong></td>
</tr>
<tr>
<td><strong>Address:</strong></td>
</tr>
</tbody>
</table>
# TTY Testing Scenario

<table>
<thead>
<tr>
<th>Test Scenario # 4</th>
<th>ASL Format</th>
</tr>
</thead>
</table>
| **Initial Complaint:** | HELP APARTMENT HAS FIRE  
DOOR HOT AND SMOKE  STUCK APT C FLOOR 3 |
| **Translation:** | Help please, my apartment is on fire. |
| **Problem:** | WAKE UP SEE SMOKE HERE  SCARED FOR GET OUT  HAVE BABY  
You woke up to the smell of smoke. You live on the third floor of the Windscape Apartments. It is very smoky and you are afraid to leave the apartment. You and your young daughter who is there with you are both deaf. |

**Additional Information**

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Terry Dargle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>955-3306</td>
</tr>
<tr>
<td>Address:</td>
<td>725 Annson Road, Apt 3-C</td>
</tr>
</tbody>
</table>
## TTY Testing Scenario

<table>
<thead>
<tr>
<th>Test Scenario # 5</th>
<th>English Format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Complaint:</strong></td>
<td>Help please, my wife is having trouble breathing. I think she needs an ambulance.</td>
</tr>
<tr>
<td><strong>Problem:</strong></td>
<td>After dinner your wife began to feel weak so she was resting on the sofa. Now she is feeling worse and is having some difficulty in breathing. She has a previous history of heart problems and has a pacemaker.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Complaint Name:</th>
<th>Ray Busbee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>298-2276</td>
</tr>
<tr>
<td>Address:</td>
<td>821 13th Street (near Bush Drive)</td>
</tr>
<tr>
<td>Patient Age:</td>
<td>58 yoa</td>
</tr>
<tr>
<td>Other:</td>
<td>You are speech impaired due to throat cancer. Your spouse is not deaf and not speech impaired but is unable to communicate very well due to the medical condition.</td>
</tr>
</tbody>
</table>
## Test Scenario # 6

<table>
<thead>
<tr>
<th>Initial Complaint:</th>
<th>AMBO NEED FAST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation:</td>
<td>You need an ambulance now!!</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Problem:</th>
<th>DAUGHTER CHOKE NO AIR FACE BLUE PLS SEND HELP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation:</td>
<td>Your daughter was eating dinner and began to choke. She is still choking and is not able to cough. She is turning blue. Please send an ambulance.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Complainant Name:</th>
<th>Jean Carson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>755-3826</td>
</tr>
<tr>
<td>Address:</td>
<td>886 Alma Lane.</td>
</tr>
<tr>
<td>Patient's Age:</td>
<td>5 yoa</td>
</tr>
<tr>
<td>Other:</td>
<td>You are deaf but your daughter is not deaf.</td>
</tr>
</tbody>
</table>