



# Site Report

## PRACTICAL EXAMINATION—TELECOMMUNICATIONS TOWER TECHNICIAN 1

NWSA has established specific conditions and guidelines that each Practical Test Site must adhere to. This Site Report is designed to ensure these conditions are met. The Test Site Coordinator may use this document to source all the materials necessary to be able to administer the practical exam. The Test Site Coordinator and Practical Examiner may work together to layout the test site (see test site setup instructions).

The Practical Examiner is required to perform a site inspection prior to the start of the first examination and complete the Site Report form. The Practical Examiner must arrive at the Test Site in sufficient time to verify the accuracy of the site layout and that all materials necessary to administer the exam are present. This Site Report must be presented on demand to any Practical Test Auditor.

*If using more than one tower at this test site, please fill out a Site Report for each one.*

**Please type or print neatly.**

|                               |      |
|-------------------------------|------|
| NWSA PRACTICAL TEST SITE #    | DATE |
| NAME OF TEST SITE COORDINATOR |      |

*If using more than one tower at this test site, please describe which tower this Site Report relates to (e.g., “north tower.”):*

**Check the following items for compliance:**

### PRE-TEST CANDIDATE BRIEFING AREA

- Sufficient tables and chairs to seat all candidates for the Pre-Test Briefing
- A location so that waiting candidates are unable to observe other candidates being tested
- A written description of the examination (copies of Candidate Handbook)

### OVERALL TESTING AREA

- Free of debris, stored materials, surface irregularities, or hazards that could interfere with the exam
- No obstructions are within 5 ft. of the test site layout in any direction within the working exam area
- During testing, an area where individuals not directly involved in the test administration will not be permitted to enter or observe freely.
- Can be located indoors or outdoors

### TOWER

- Minimum 15 ft. height (20 ft. recommended)
- Minimum 18 in. face width
- 1 in. - 5 in. lattice leg size
- Three or four leg lattice structure
- Standard tower section
  - Guyed or self-support is acceptable
  - Round leg or angle leg is acceptable
  - Straight or tapered is acceptable
- Properly secured to ground and stable
- Must allow for proper installation of designated jumper support materials in the proper location (see below)

## SITE REPORT (CONT'D)

### PRACTICAL EXAMINATION—TELECOMMUNICATIONS TOWER TECHNICIAN 1

NWSA Practical Test Site #: \_\_\_\_\_

PAGE 2 of 4

#### **MATERIALS RELATED TO TOWER SET UP**

- Minimum 1000# Working Load Limit (WLL) top block (with proper method of attachment to secure anchor point) compatible with rope size and working load limit
- One 3 ft. – 4 ft. length synthetic sling (minimum 2100# WLL in choker configuration)
  - For top block connection
- Minimum ½ in. shackle (minimum 4000# WLL / self-closing 3500# WLL)
  - For top block connection
- Capture Progress system with a 500# WLL
  - Installed at the tower base or a maximum of 30 ft. from the tower base
  - Block-and-Prusik/Autoblock configuration or capstan hoist with rope lock are acceptable methods
  - If lifting will be done by hand, a two-part block configuration is required (minimum 1000# WLL with compatible size rope)
- Minimum 50 ft. length of 3/8 in. – 1/2 in. kernmantle or double braid load rope (500# WLL)
- One 1/2 in. shackle (minimum 4000# WLL)
  - Used for connecting pipe mount to hoisting system
- One minimum 20 ft. self-retracting device (SRD) with proper method of attachment to secure anchor point
  - Meets Z359.14-2012 Class A or Class B standard (must have maximum arresting distance of 36 in. or less)
- 3/4 in. clearly visible marking tape at 8 ft. mark of tower leg where antenna will be mounted
- 24 in. length of coax (1/2 in. – 1 5/8 in.) with DIN female connector (top end) with secure method of attachment to tower
  - Verify that connection can be made based on location of antenna port (when mounted) and the available jumper. Jumper routing should have horizontal and vertical displacement.

#### **ANTENNA MOUNT ASSEMBLY AND JUMPER CONNECTION TASKS MATERIALS**

##### **Antenna and Mount**

- Antenna with bottom- or back-fed DIN female port with adjustable down-tilt bracket. Centerline marked with tape all the way around. Label with centerline height and down-tilt.
  - 42 in. – 60 in. height
  - Maximum 18 in. width
  - Maximum 12 in. depth
  - Maximum 100 #
- NWSA universal antenna mount assembly (must be purchased from authorized NWSA materials provider, see order form)
- NWSA mounting pipe (must be purchased from authorized NWSA materials provider, see order form)
- Antenna mount hardware
  - Two 1/2 in. × 3-1/2 in. × 2-3/8 in. U-bolts
  - Four 1/2 in. × 1-3/4 in. bolts
  - Four 1/2 in. × 6-1/2 in. saddle bolts
  - Four 1/2 in. × 3/4 in. hex nuts
  - Eight 1/2 in. × 7/8 in. hex nuts
  - Twelve 1/2 in. lock washers
  - Four 1/2 in. flat washers

##### **Jumper**

- 6 ft. length 1/2 in. jumper assembly (DIN Male-DIN Male)—cannot be Superflex
  - Marked 18 in. from each end

## SITE REPORT (CONT'D)

### PRACTICAL EXAMINATION—TELECOMMUNICATIONS TOWER TECHNICIAN 1

NWSA Practical Test Site #: \_\_\_\_\_

PAGE 3 of 4

#### Tools

- 5/16 in. – 1/2 in. nut driver set
- 5/16 in. – 7/8 in. (6-point) socket set 3/8 in. drive
- 10 in. or 12 in. adjustable spud wrench
- 5/16 in. – 7/8 in. ratcheting box end wrench set
- 8 in. or 10 in. adjustable wrench (aka “Crescent wrench”)
- 7/16 DIN torque wrench (1-1/4 in., 18–22 lb-ft (25–30 Nm))
- Straight jaw tongue & groove adjustable pliers - 10 in. (aka “Channel Locks”)
- 7 in. curve jaw locking pliers (aka “Vice Grips”)
- 5/16 in. x 6 in. flathead screwdriver
- #2 Phillips screwdriver
- Digital level with spare batteries (minimum 7 in. length)
- Tape measure (12 ft. minimum)

#### Materials

- Four 1/2 in. snap-ins
- Four 1/2 in. butterfly hangers
- Four universal (3/8 in.) hole angle adaptors
- Four universal (3/4 in.) hole angle adaptors
- Four wide stand offs (3/4 in.) hole
- Four 3-run stand offs (3/4 in.) hole
- Four 3/8 in. hole inserts for 3/4 in. hole
- Four round member adapter hose clamps (sized per structure)
- 3/8 in. stainless steel hardware (with washers) for butterflies
- 6 in. all thread kit
- Four 7/8 in. snap-ins
- Four 7/8 in. butterfly hangers

#### Candidate Hoisting Materials

- Hoist bucket with minimum 50# WLL

#### WEATHERPROOFING TASK MATERIALS

- Weatherproofing “skeleton”—see design criteria in Practical Test Site Coordinator Handbook
- Weatherproofing kit (per candidate)
  - 2 in. rolls of tape
  - 3/4 in. rolls of tape
  - Butyl tape
- 5-1/4 in. electrician scissors (or comparable)

#### TYING KNOTS TASKS MATERIALS

- Minimum 8 ft. length of 3/8 in. – 1/2 in. rope

#### SAFETY

- First Aid Kit (OSHA/ANSI standard)
- Portable 8 ft. ladder or other similar device (e.g., aerial work platform)
- Document the rescue plan. This will need to be communicated to each candidate.

**Rescue Plan (attach if a separate document):**

# SITE REPORT (CONT'D)

## PRACTICAL EXAMINATION—TELECOMMUNICATIONS TOWER TECHNICIAN 1

NWSA Practical Test Site #: \_\_\_\_\_

PAGE 4 of 4

### OTHER MATERIALS

- Two 6 ft. tables
- Two chairs

### GENERAL NOTES

- All equipment/rigging used must be in compliance with ANSI/ASSE A10.48
- It is recommended that back-up equipment and materials be available in case of unexpected malfunction or damage occurs
- Ensure replacement hardware is available
  - Recommended that galvanized hardware be used at all times
  - Recommended to have a tap and die set available

### PRACTICAL EXAMINER MATERIALS NEEDED:

- Personal Protective Equipment (PPE)
  - Hard hat (ANSI Z89)
  - Safety glasses/eye protection (ANSI Z87)
  - Work boots
  - Gloves
- NWSA TTT-1 radius measurement tool (provided by NWSA)
- Clipboard
- Pen
- Tape measure (12 ft. minimum)
- Countdown timer (2 hours) visible to candidate
- Digital camera (mobile phone camera may be used)
- TTT-1 Antenna Mount Detail Drawings for both round leg and angle leg towers (laminated)
- TTT-1 Jumper Installation Detail Drawings (laminated)
- TTT-1 Verbatim Instructions
- TTT-1 Practical Score Sheets

***Deviations from the above-noted requirements are not allowed without consent from NWSA. If consent is received, please document any deviations:***

### PRACTICAL EXAMINER ATTESTATION

*I attest that this is a true and accurate report of the above-named Test Site.*

PRACTICAL EXAMINER SIGNATURE

PRINTED NAME OF PRACTICAL EXAMINER

PRACTICAL EXAMINER'S ACCREDITATION #

DATE

***This Site Report is to be completed by the Practical Examiner prior to each testing session and sent with candidate score sheets to:***

NWSA—Testing Services  
5250 S. Commerce Drive, Suite 100  
Murray, UT 84107

Phone: 703-459-9211  
Fax: 703-459-9124  
Email [nwsa@nws-a.org](mailto:nwsa@nws-a.org)