



ANTENNA & LINE SPECIALTY & FOREMAN CERTIFICATIONS

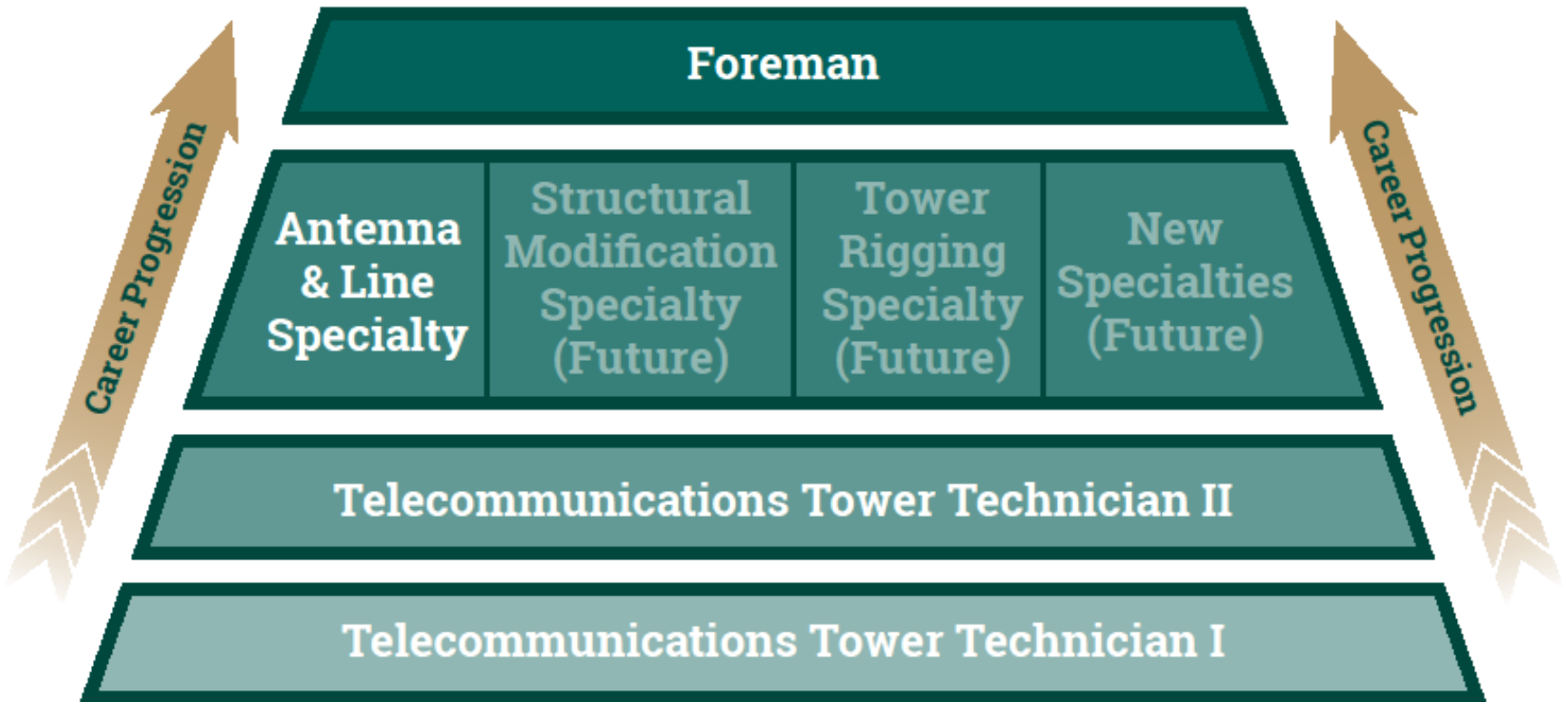
National Wireless Safety Alliance
July 24, 2019

Topics

- INTRODUCTION
- CANDIDATE HANDBOOK
- DOMAINS
 - WHAT ARE THE DOMAINS
 - **TEST OUTLINE**
 - REFERENCE LIST
 - **FOREMAN LEADERSHIP GUIDE**

INTRODUCTION

NWSA Hierarchy of Certifications



2016 Launch of TTT-1 & TTT-2



NWSA Launches Telecommunications Tower Technician Certification Programs

Nationwide Certification Offerings Mark Historic Milestone for the Communication Tower Workforce

(Fairfax, Virginia) - The National Wireless Safety Alliance (NWSA) announced today the official launch of two industry-wide certification programs: Telecommunications Tower Technician 1 (TTT-1) and Telecommunications Tower Technician 2 (TTT-2). These

2019 Foreman and A&L Specialty

For Immediate Release:
January 29, 2019

Contact: Duane MacEntee
nwsa@nws-a.org

NWSA Launches Additional Telecommunications Tower Foreman and Antenna & Line Specialty Certification Programs

*New Nationwide and Portable Certification Programs Provide Career
Progression Pathways for Industry Workers*

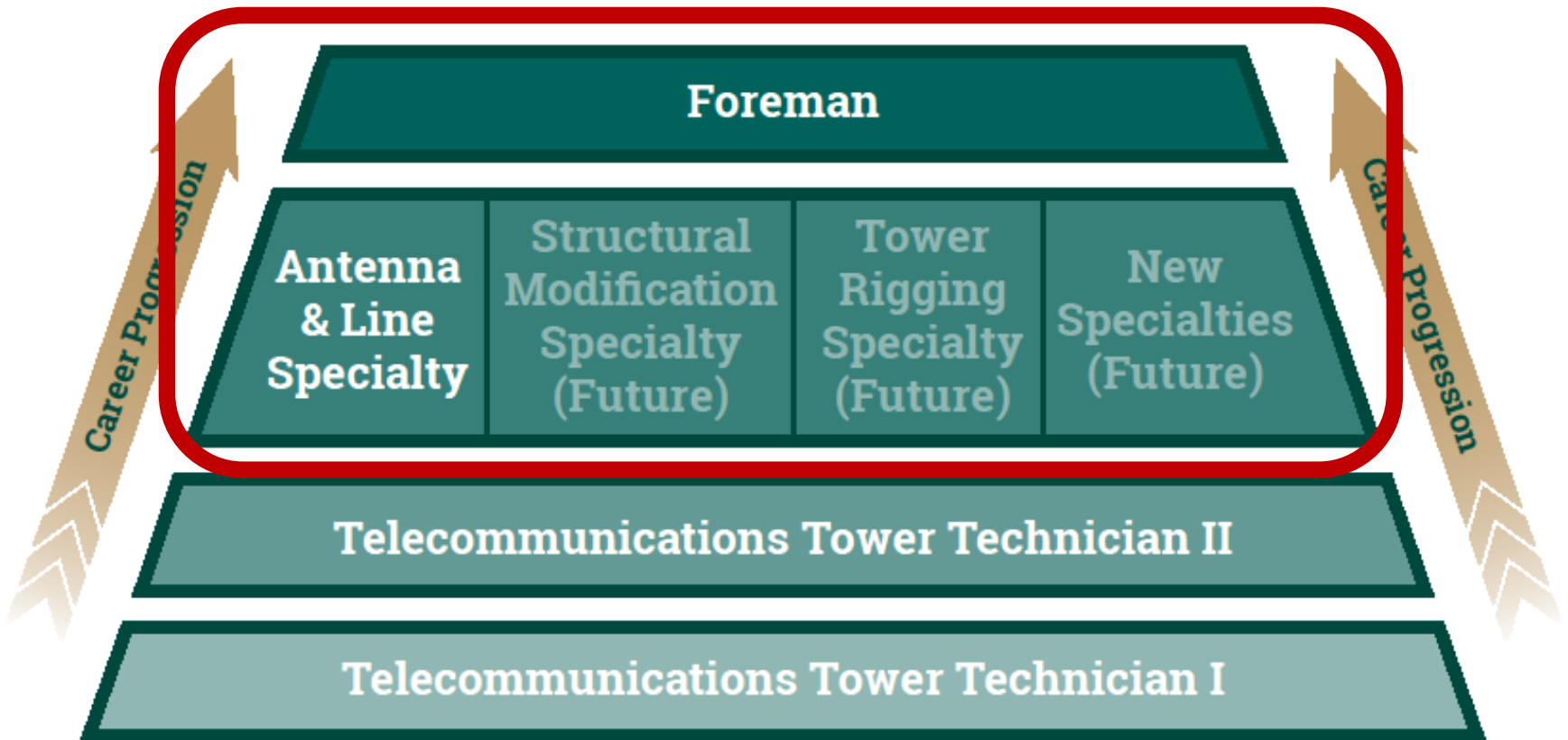
(Fairfax, Virginia) - National Wireless Safety Alliance (NWSA) announced today the official launch of the Telecommunications Tower Foreman and Antenna & Line Specialty Certification Programs.

These programs were developed by the NWSA's Foreman and Antenna & Line Specialty Task Force that is comprised of subject matter experts from all aspects of the communications industry - tower technicians, carriers, tower owners/vertical realtors, OEM's contractors, trainers, manufacturers and suppliers - who together represent many thousands of hours of related telecommunications and tower experience.



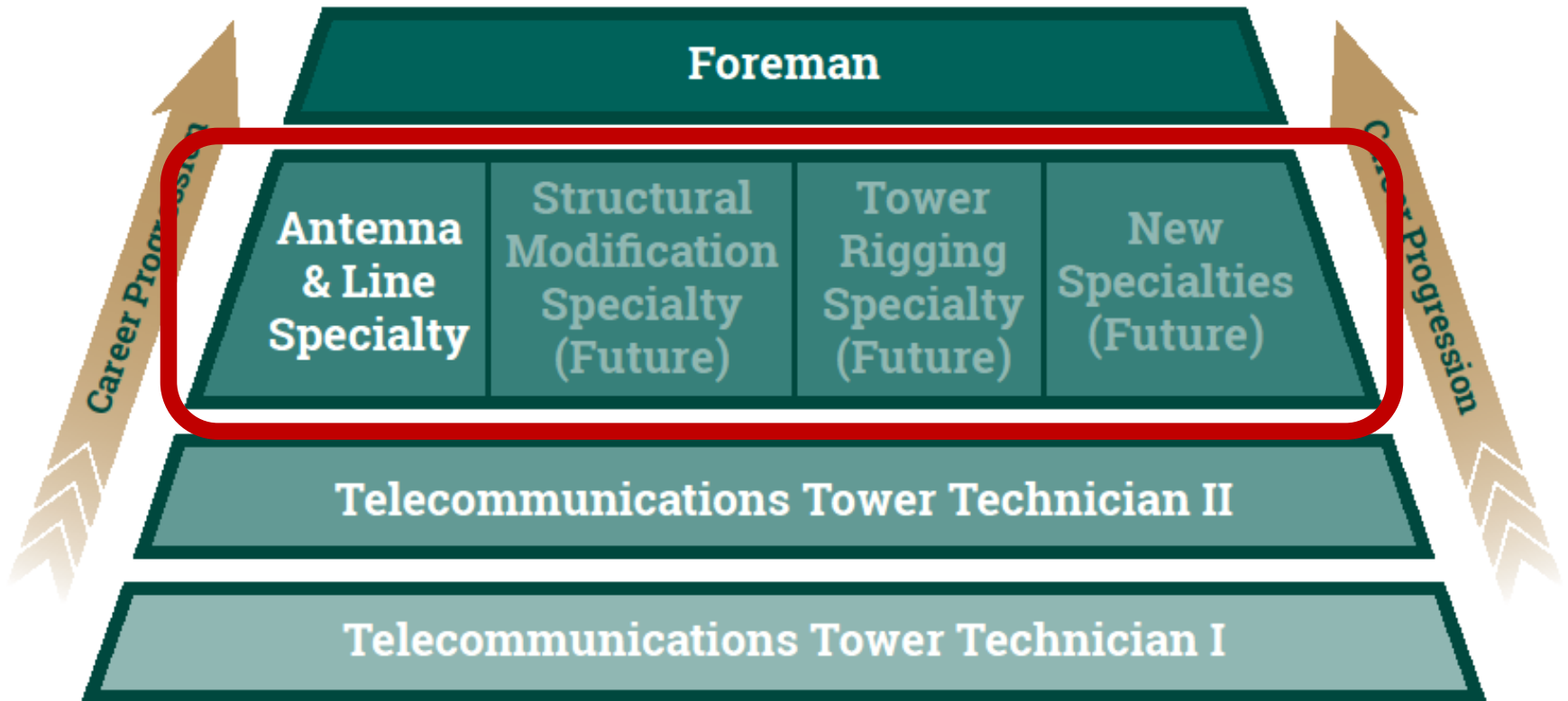
INTRODUCTION

NWSA Hierarchy of Certifications



NWSA Certifications

NWSA Hierarchy of Certifications

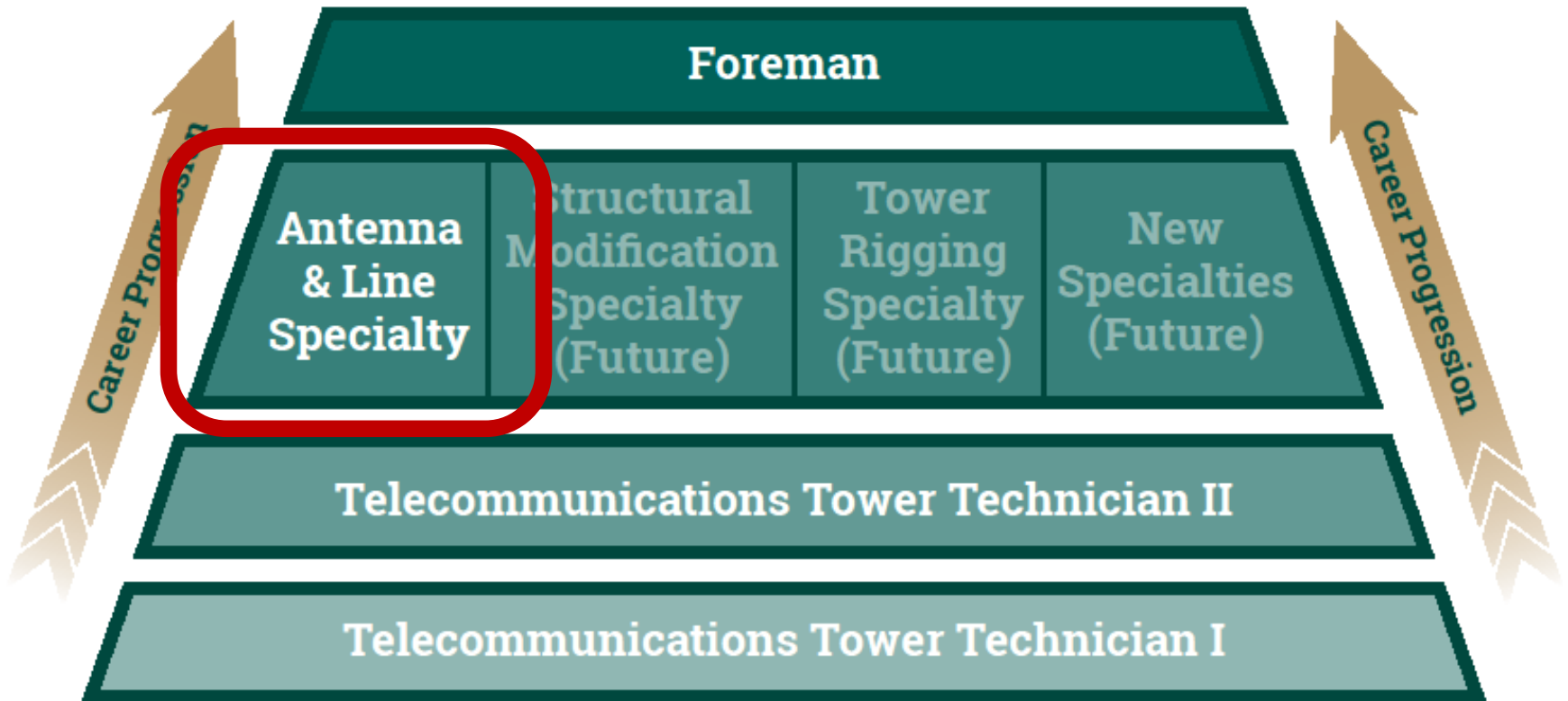


Specialty Certifications

- A **Specialty** is a scope specific certification of knowledge in that particular area. More than a technician certification for general industry knowledge, it is specialized for a specific scope of work. Does not necessarily require managerial/supervisory skills to obtain a Specialty certification.

NWSA Certifications

NWSA Hierarchy of Certifications



Antenna & Line Specialty

- An **Antenna & Line Specialty** certification is for individuals who have met the fundamental knowledge and experience requirements for installation, repair, troubleshooting and maintenance of antennas, transmission lines and mounts on communication structures.

Antenna & Line Specialty

- ▣ **Prerequisite: TTT-2**
- ▣ **Candidates** must pass a Written Exam
 - **No** field Practical Exam is required
 - Computer-Based Testing (CBT)
 - Candidates apply online
 - Available nationwide at over 400 PSI testing facilities
 - Fee is \$274
- ▣ **5–Year Expiration**

Register at www.NWS-A.org

The screenshot shows the website for the National Wireless Safety Alliance (NWSA). The browser address bar displays "www.nws-a.org/". The website features a navigation menu with the following items: "GET CERTIFIED", "NEW EXAMINERS AND SITES", "RESOURCES", "CONTACT", "ABOUT", and "PE TOOLS". A dropdown menu is open under "GET CERTIFIED", listing "Learn About Our Certifications", "Telecommunications Tower Technician", "Antenna & Line Specialty Foreman", "Exam Fees", and "Find a Test Site". A red arrow points to the "Telecommunications Tower Technician" option. The main header area includes the NWSA logo and the text "NATIONAL WIRELESS SAFETY ALLIANCE" and "Raising the Bar for Telecom Worker Certification". Below the header, there are four featured content blocks:

- LEARN ABOUT OUR CERTIFICATIONS** (with a "read more" link)
- GET CERTIFIED** (with a "read more" link), featuring an image of a "NWSA CERTIFIED Telecommunications Technician" card for Joseph A. Technician, Certification # 123456789.
- SET UP A PRACTICAL TEST SITE** (with a "read more" link"), featuring an image of a worker on a tower.
- BECOME A PRACTICAL EXAMINER** (with a "read more" link"), featuring an image of a worker on a tower.

Candidate Handbook

Website:

www.NWS-A.org



**NATIONAL WIRELESS
SAFETY ALLIANCE**

CANDIDATE HANDBOOK

- **Telecommunications Tower Technician 1 (TTT-1)**
- **Telecommunications Tower Technician 2 (TTT-2)**
- **Antenna and Line (A&L) Specialty**
- **Foreman (FOR)**

A&L Specialty CBT Test Outline

Written Exam Knowledge Domains

1. Appurtenances 28%
2. Antenna Systems 29%
3. Grounding 9%
4. Transmission Lines and Connectors 12%
5. Hazards 22%

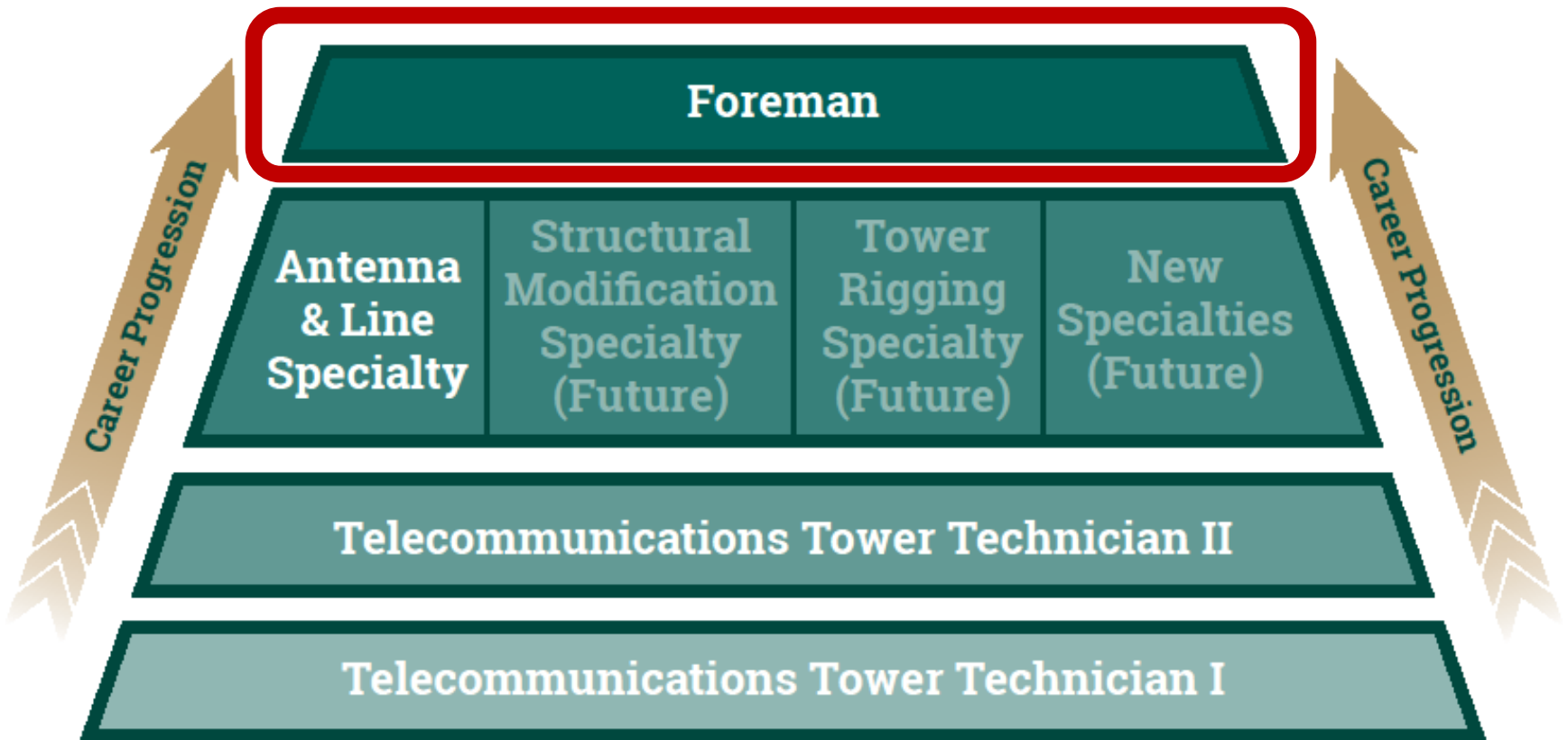
CBT REFERENCE LIST: A&L Specialty

□ **Antenna & Line Specialty**

- OSHA 29CFR1910 and 1926
- Commscope eBook - *Understanding the RF Path*
- ANSI/ASSE A10.48-2016
- FAA AC 70/7460-1L
- FCC OET Bulletin 65
- Commscope – Installation Bulletin 17800B-JC

NWSA Certifications

NWSA Hierarchy of Certifications



Foreman

- A **Foreman** is a supervisor of a crew performing construction, installation, demolition, and/or maintenance on communication sites in accordance with construction drawings and/or written scopes of work. It is the Foreman's responsibility to ensure work is performed in compliance with applicable industry standards and best practices.

Foreman

- ▣ **Prerequisite: TTT-2 and at least one Specialty Certification**
- ▣ **Candidates** must pass a Written Exam.
 - **No** Practical Exam is required
 - Computer-Based Testing (CBT)
 - Candidates apply online
 - Available nationwide at over 400 PSI testing facilities
 - Fee is \$274
- ▣ **5–Year Expiration**

Register at www.NWS-A.org

The screenshot shows the website for the National Wireless Safety Alliance (NWSA). The browser address bar displays "www.nws-a.org/". The website features a navigation menu with links for "GET CERTIFIED", "NEW EXAMINERS AND SITES", "RESOURCES", "CONTACT", and "ABOUT". A "PE TOOLS" button is also visible. A dropdown menu is open under "GET CERTIFIED", listing "Learn About Our Certifications", "Telecommunications Tower Technician", "Antenna & Line Specialty Foreman", "Exam Fees", and "Find a Test Site". A red arrow points to the "Telecommunications Tower Technician" option. The main content area includes the NWSA logo, the text "NATIONAL WIRELESS SAFETY ALLIANCE", and the slogan "Raising the Bar for Telecom Worker Certification". Below this are four featured sections: "LEARN ABOUT OUR CERTIFICATIONS", "GET CERTIFIED", "SET UP A PRACTICAL TEST SITE", and "BECOME A PRACTICAL EXAMINER", each with a "read more" link. The "GET CERTIFIED" section includes an image of a certification card for Joseph A. Technician, a Telecommunications Technician, with certification number 123456789.

www.nws-a.org/

GET CERTIFIED NEW EXAMINERS AND SITES RESOURCES CONTACT ABOUT PE TOOLS

Learn About Our Certifications

Telecommunications Tower Technician

Antenna & Line Specialty Foreman

Exam Fees

Find a Test Site

NWSA Endorsed Certifications

NATIONAL WIRELESS SAFETY ALLIANCE

Raising the Bar for Telecom Worker Certification

LEARN ABOUT OUR CERTIFICATIONS read more

GET CERTIFIED read more

SET UP A PRACTICAL TEST SITE read more

BECOME A PRACTICAL EXAMINER read more

NWSA CERTIFIED Telecommunications Technician Certification # 123456789

Joseph A. Technician Expires: 01/01/2022

National Wireless Safety Alliance

Candidate Handbook

Website:

www.NWS-A.org



**NATIONAL WIRELESS
SAFETY ALLIANCE**

CANDIDATE HANDBOOK

- **Telecommunications Tower Technician 1 (TTT-1)**
- **Telecommunications Tower Technician 2 (TTT-2)**
- **Antenna and Line (A&L) Specialty**
- **Foreman (FOR)**

Foreman CBT Test Outline

Written Exam Knowledge Domains

1. Environmental Health and Safety 17%
2. Rigging 22%
3. Quality and Productivity 16%
4. Leadership 45%

CBT REFERENCE LIST: Foreman

□ Foreman

- ANSI/ASSE A10.48-2016
- OSHA 29CFR 1904, 1910 and 1926
- NWSA Leadership Guide
- OSHA Compliance Directive – CPL 02-01-056 (2014)
- FCC OET Bulletin 65
- ANSI/ASME, B30.9 – Slings
- Hubbell/A.B. Chance Owners' Manual

CBT REFERENCE LIST: Foreman – cont'd

- **Foreman – cont'd**
 - Federal Motor Carrier Safety Administration (FMCSA), *Interstate Passenger Carrying Driver's Guide to Hours of Service*
 - U.S. Fish & Wildlife Service (FWS), *Communications Towers*
 - USDOL *Heat Index Guide for Employers*

NWSA Leadership Guide

Website:

www.NWS-A.org



**NATIONAL WIRELESS
SAFETY ALLIANCE**

**Foreman
Leadership
Guidelines**

NWSA Leadership Guide

- Table of Contents
 - ▣ Leads Others
 - ▣ Builds Trust
 - ▣ Extends Influence
 - ▣ Leads by Example
 - ▣ Communicates
 - ▣ Creates a Positive Environment
 - ▣ Prepares Self
 - ▣ Develops Others
 - ▣ Representative of the Profession
 - ▣ Gets Positive Results

Please direct inquiries to:

NWSA@nws-a.org

Thank You