# CYBER SECURITY LABOR SHORTAGES AND SKILL GAPS

CRITICAL INFRASTRUCTURE PROTECTION **HSI** Industrial Skills — Reliability Matters

## **Key Observations**

## **Industry Challenges**

 The shortage of cyber security professionals has risen by 12.6% annually

CURRENT
THREAT LANDSCAPE
IS VIEWED BY
79%
OF ORGANIZATIONS
AS THE MOST
CHALLENGING IN
THE PAST FIVE

Impact on CIP Reliability Standards

- Noncompliance is often linked to staff turnover and ineffective transition planning
- Insufficient resources and tools for new and existing staff to manage complex security needs

## **Challenges**

## **Large Entities**

- Complex systems and multiple roles create challenges in defining responsibilities and ensuring effective management
- Examples of failures include inadequate password management and failure to inventory accounts

#### **Small Entities**

- Limited resources can lead to disruption from the loss of a single employee
- Less capacity to manage all aspects of cyber security



# **Suggestions for Improvement**

# Reassess HR Strategies

Enhance recruitment efforts and improve employee retention strategies

# **Resource Allocation**

Ensure adequate resources for implementing new processes or controls

### Vendor Technology

CYBER SECURITY STAFF

Engage appropriate
personnel in vendor training
and demonstrations



## **Create Commonalities**

Standardize processes and technology across departments to increase staff versatility



#### **Develop Talent**

Mentor staff from within or hire and train new employees

Strategically outsource time-intensive tasks to better use staff core skills

#### **Succession Planning**

Develop and document detailed succession plans for key staff roles

Implement both shortand long-term plans to manage critical tasks

## Leverage NERC Resources

Use available training, workshops, webinars, and best practices to enhance security and compliance skills

