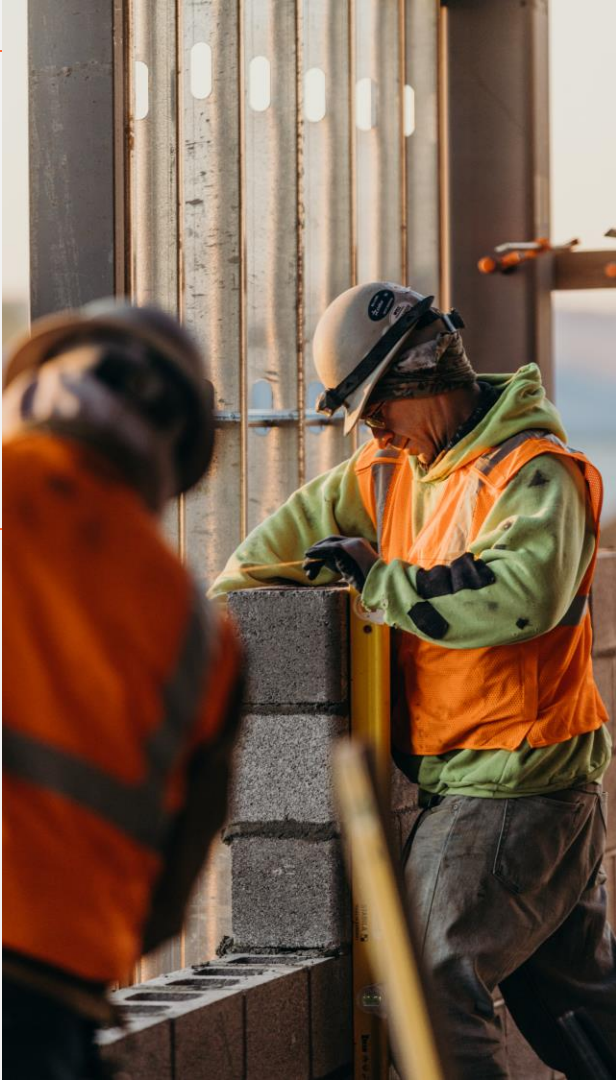# NCCER Online Module Testing
Technical Overview

Overview

Objective

This presentation aims to:

Provide a clear understanding of what is needed for NCCER computer-based tests to be successful within a locked down environment.

Access

Access is granted based on roles and can be bucketed into two groups:

- **Staff**
  - Includes: Instructors, Proctors, Program Directors and Program Managers

- **Test Takers (Learners)**

Technical Details

Technical Overview

There are *four* components that help to deliver the end-to-end testing experience.

- 1. NCCER Learning Platform
- 2. NCCER Performance App
- 3. NCCER Program Management
- 4. NCCER Account Portal and Authentication

NCCER Learning Platform

The NCCER Learning Platform is where instructors and/or proctors will assign tests to students and then authorize tests to be started using the proctor console.

Students will log in using their Last Name and NCCER Card Number to launch assigned tests. No other interaction with the Learning Platform is required for students.
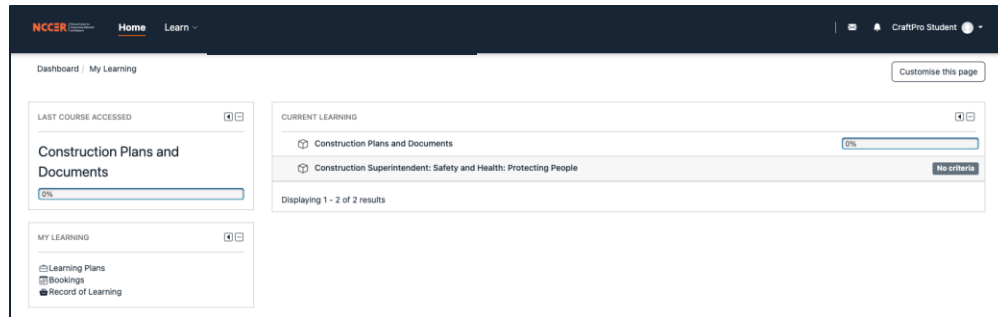
NCCER Online Testing

Students, instructors, and proctors access NCCER's Learning Platform to take and administer online module testing.
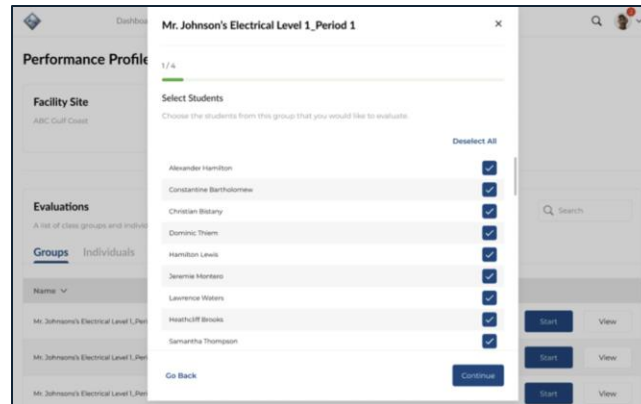
NCCER Performance App

The NCCER Performance app is where instructors and performance evaluators will track, record, and submit hands-on performance tasks (i.e. Performance Profiles).

The app is web-based and is only utilized by instructors and performance evaluators. Students have no interaction with this application.

NCCER Program Management

The NCCER Program Management portal allows Directors and Managers to view and manage individuals with certified roles at their organization. Management of users with NCCER certified roles will happen in the Program Management portal.
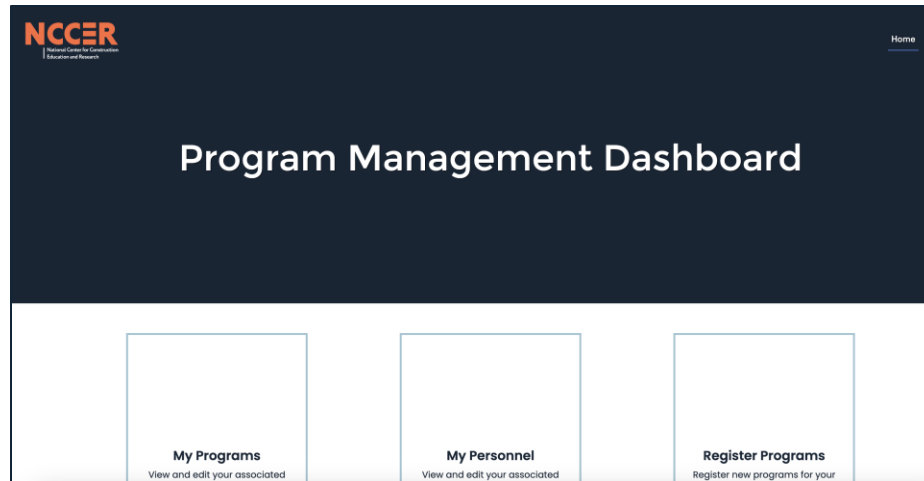
NCCER Account Portal and Authentication

The NCCER Authentication Services are what allow us to ensure security of our systems while facilitating single sign-on across our applications. Staff members will log in to their accounts to access the Testing System, Learning Platform, and Program Management using these services.

Test Takers are able log in using just their last name and card number to take tests; however, if access to the Learning Platform is needed (e.g. for training purposes), an NCCER account will be required.

Technical Architecture

NCCER

Testing System

Program & Personnel Management

Performance App

Learning Platform

Test assignments
Course enrollments
Proctoring

Account Portal
Single Sign-On

Authentication
Credentials
Reporting
Access to other systems

Login
Card#
last name

Login
Username
Password

Trainee
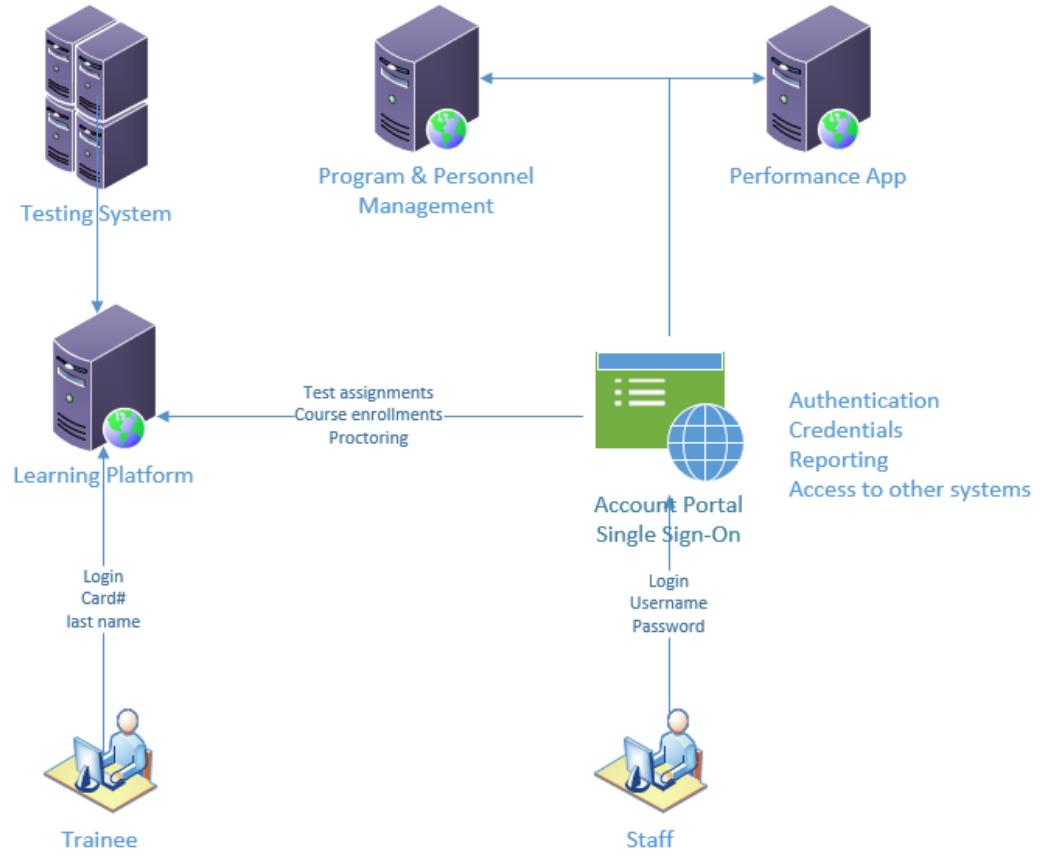
Staff

Customer Workflows

NCCER

Workflow for Staff

System Workflow for Staff accessing the NCCER Testing System

Authentication Services
- URL(s):
- d1ju3miv3cxx7s.cloudfront.net
- d-5jo3on7bta.execute-api.us-east-1.amazonaws.com
- d-x4zbn5xvg8.execute-api.us-east-1.amazonaws.com
- api2-us-east-1.prd.nccer.net
- standalone-sso.prd.nccer.net
- ids-us-east-1.prd.nccer.net

Account Portal
- URL(s):
- web.myaccount.nccer.org
- myaccount.nccer.org
- fonts.googleapis.com
- fonts.gstatic.com

Learning Platform
- URL(s): learning.nccer.org (CNAME)
- learning.nccer.org

Program and People Management
- URL(s):
- https://nccer.my.site.com

PP / PV App
- URL(s):
- pp.prd.nccer.net

Reporting
- URL(s):
- ce.prd.nccer.net
- Score report app url tbd

Online Testing
- URL(s): https://auth-ignite.prod.gcp-eu.taocloud.org
- https://testrunner-ignite.prod.gcp-eu.taocloud.org
- https://pr-lti-be-ignite.prod.gcp-eu.taocloud.org
- https://timers-ignite.prod.gcp-eu.taocloud.org
- https://pr-fe-ignite.prod.gcp-eu.taocloud.org

Workflow for Test Takers

System Workflow for Test Takers accessing the NCCER Testing System

NCCER

Learning Platform Login (card # + last name)

- URL(s): Learning.nccer.org (CNAME)
- https://learning.nccer.org/local/login/index.php

Learning Platform

- URL(s): Learning.nccer.org (CNAME)
- https://learning.nccer.org/*
- https://learning.nccer.org/totara/dashboard/index.php

Online Testing

- URL(s): https://auth-ignite.prod.gcp-eu.taocloud.org
- https://testrunner-ignite.prod.gcp-eu.taocloud.org
- https://pr-lti-be-ignite.prod.gcp-eu.taocloud.org
- https://timers-ignite.prod.gcp-eu.taocloud.org
- https://pr-fe-ignite.prod.gcp-eu.taocloud.org

System Requirements and Whitelist Information

System Requirements

- All the systems mentioned are **web applications,** meaning no client software is needed!

- These all work on:
- PCs
  - Laptops
  - Macs
  - iPads / Tablets
  - Chromebooks

- These all work with the latest versions of all major browsers.

Firewall / Proxy Whitelist

Staff User

Authentication Services
- d1ju3miv3cxx7s.cloudfront.net
- d-5jo3on7bta.execute-api.us-east-1.amazonaws.com
- d-x4zbn5xvg8.execute-api.us-east-1.amazonaws.com
- api2-us-east-1.prd.nccer.net
- standalone-sso.prd.nccer.net
- ids-us-east-1.prd.nccer.net

Account Portal:
- web.myaccount.nccer.org
- Myaccount.nccer.org

Learning Platform:
- Learning.nccer.org (CNAME)
- learning.nccer.org/totara/dashboard/index.php

Online Testing:
- auth-ignite.prod.gcp-eu.taocloud.org
- testrunner-ignite.prod.gcp-eu.taocloud.org
- pr-lti-be-ignite.prod.gcp-eu.taocloud.org
- timers-ignite.prod.gcp-eu.taocloud.org
- pr-fe-ignite.prod.gcp-eu.taocloud.org

Performance App:
- Pp.prd.nccer.net

Program and People Management:
- nccer.my.site.com

Reporting:
- ce.prd.nccer.net
- Score report tbd

Other:
- fonts.googleapis.com
- fonts.gstatic.com

Firewall / Proxy Whitelist

Learner / Test Taker

Learning Platform:
- Learning.nccer.org (CNAME)
- https://learning.nccer.org/*
- https://learning.nccer.org/local/login/index.php
- https://learning.nccer.org/totara/dashboard/index.php

Online Testing:
- https://auth-ignite.prod.gcp-eu.taocloud.org
- https://testrunner-ignite.prod.gcp-eu.taocloud.org
- https://pr-lti-be-ignite.prod.gcp-eu.taocloud.org
- https://timers-ignite.prod.gcp-eu.taocloud.org
- https://pr-fe-ignite.prod.gcp-eu.taocloud.org