Free Resources

BUILDER™ SUMMIT

Sharing resources that many may not know exist

ERDC ENGINEER RESEARCH & DEVELOPMENT CENTER

DIGON SYSTEMS

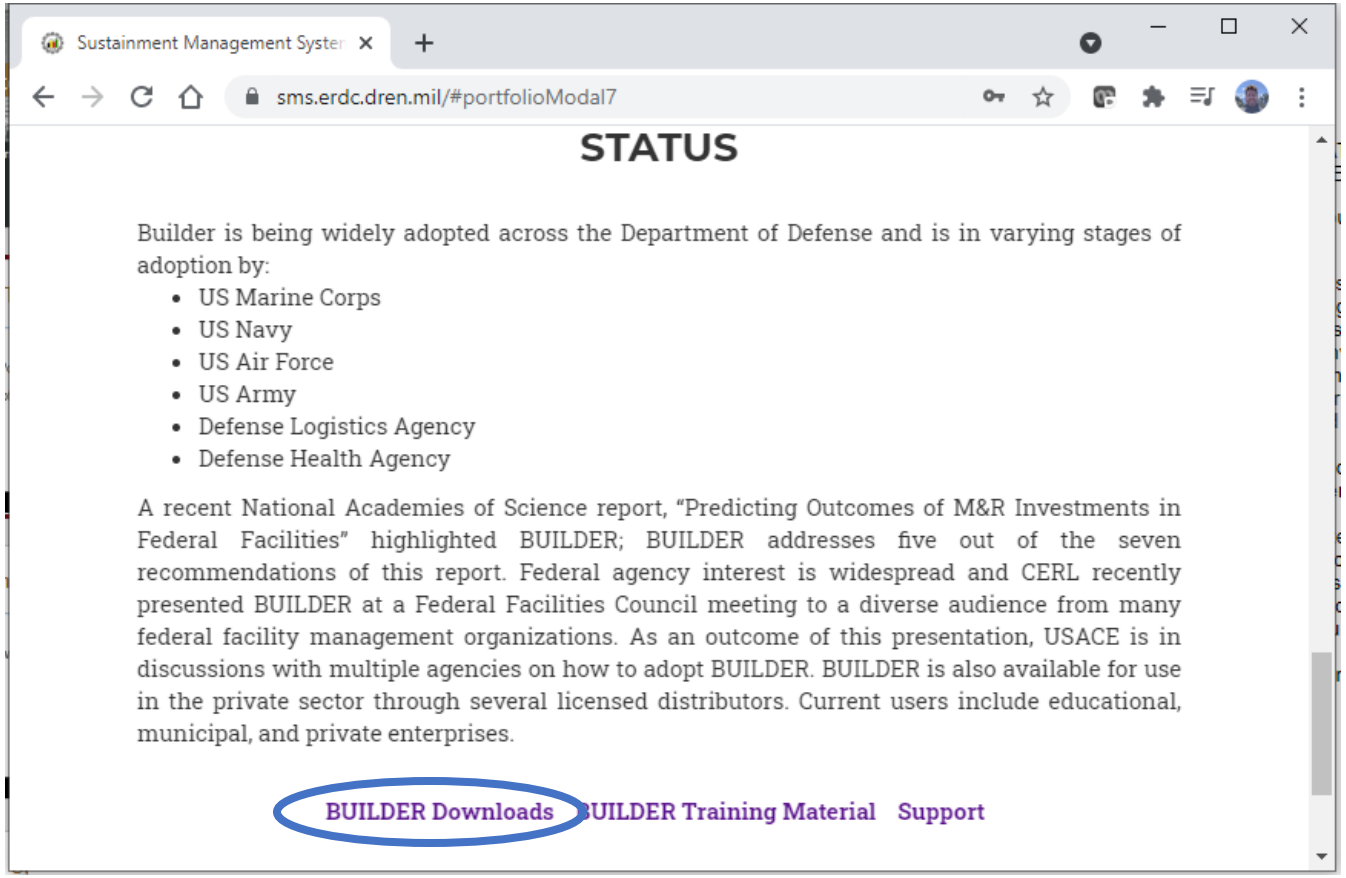
Available Resources

- Tools
- Reference Materials
- Custom Reports
- Training

Tools

https://www.sms.erdc.dren.mil/

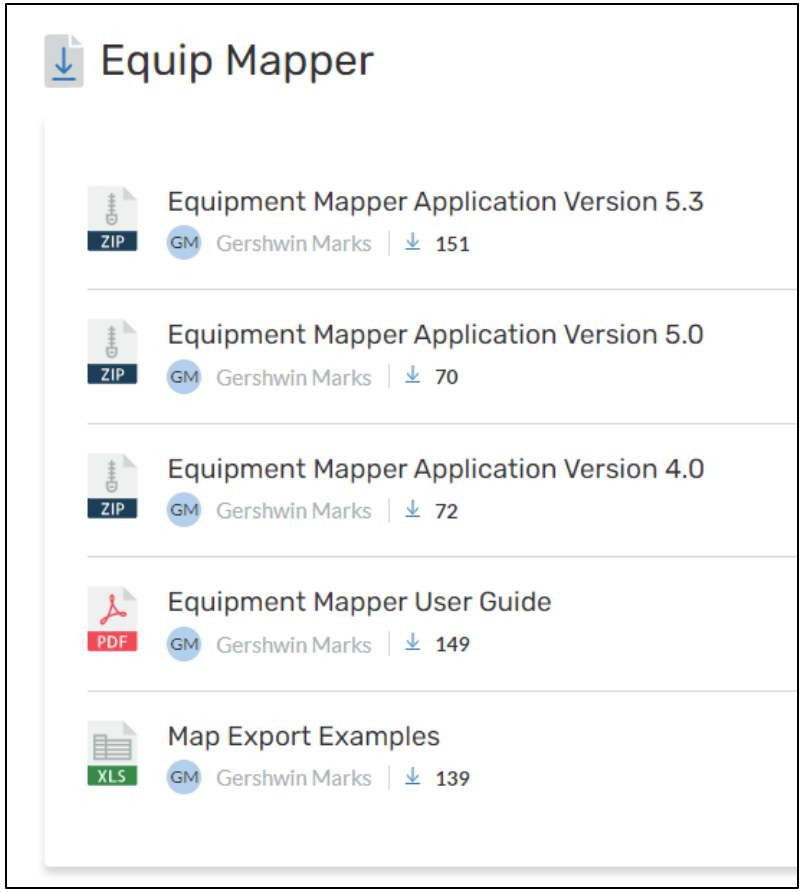
- Select BUILDER
- Scroll to bottom



Tools - Equip Mapper

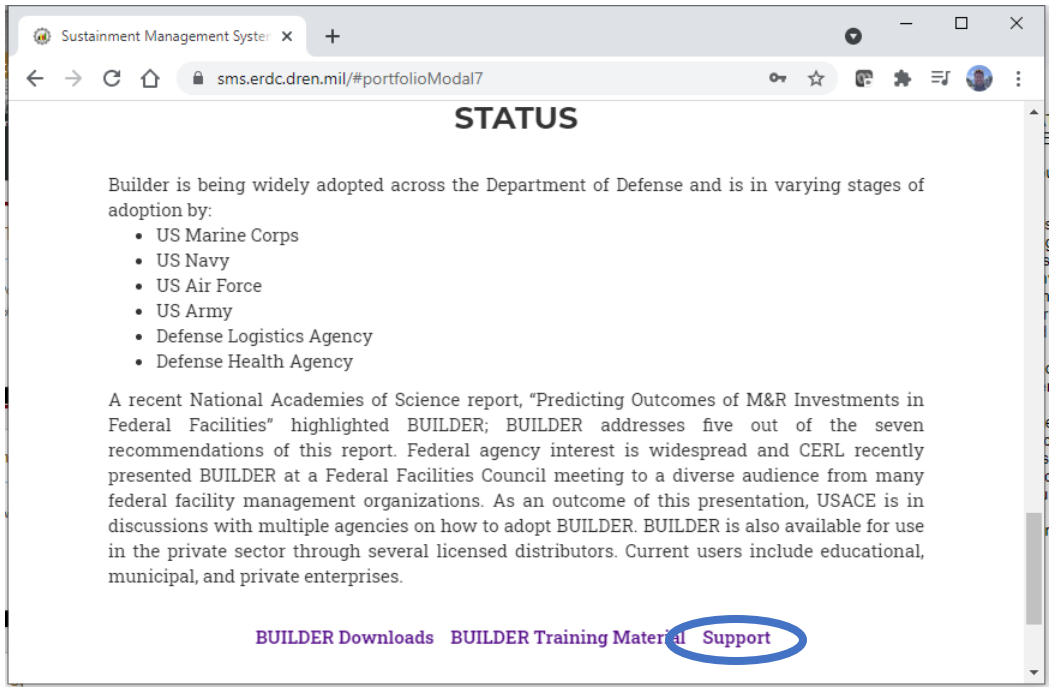
- Bulk data loading through BRED files
- Past Summit Training:

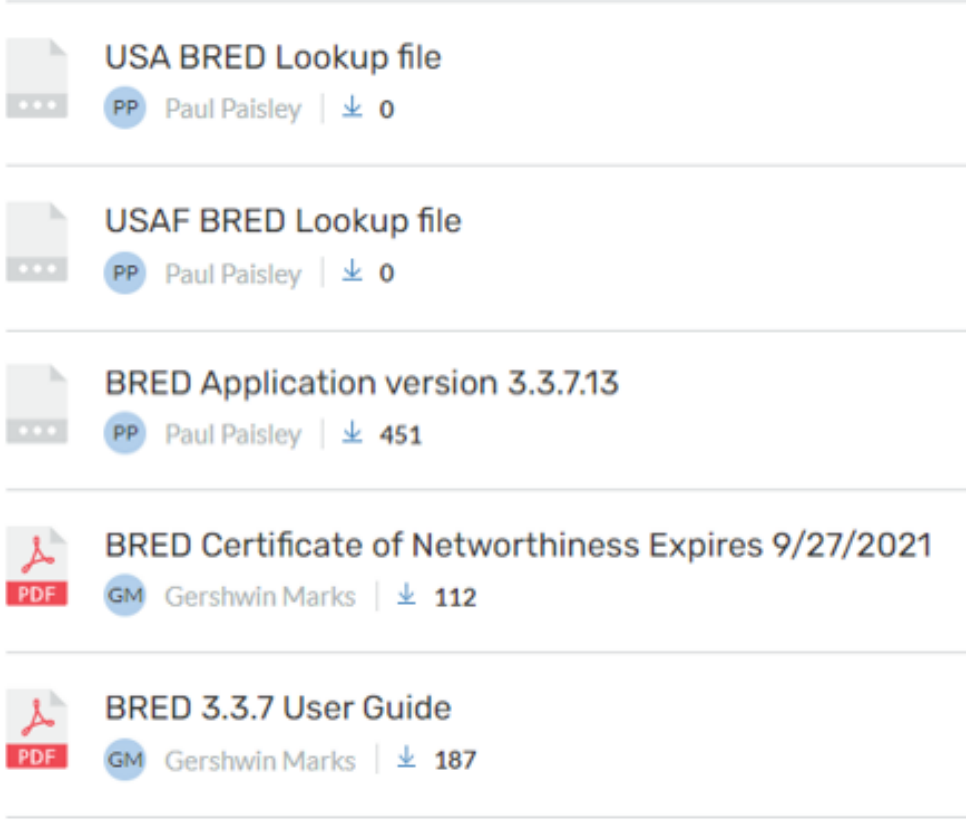
https://buildersummit.com/wp-content/uploads/2019/05/WMA-BUILDER-Summit-2019-EquipMapper-Presentation.pptx



BRED

https://support.sms.erdc.dren.mil/downloads/bred





Reference Materials

- BUILDER - Getting Started Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=86)
- BUILDER - Condition Assessment Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=83)
- BUILDER - Work Configuration Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=84)
- BUILDER - Work Planning and Scenarios Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=90)
- BUILDER - Reference Data Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=85)
- BUILDER - Permissions Roles (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=89)
- BUILDER - FCI vs BCI (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=82)
- BUILDER - Beta-Shift Parameter (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=87)
- BUILDER - Return on Investment-ROI (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=106)
- BUILDER RED / BRED - User Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=79)
- BUILDER - API Guide (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=88)

Research Materials

- CERL_TM-90-1, Facility and Component Inspection Technology Concepts Potential Use in US Army Maintenance Management (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=91)
- CERL_TR-95-30, Development of Condition Indexes for Building Exteriors (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=93)
- CERL_TR_M-90-19. Development of the BUILDER Engineered Management System for Building Maintenance (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=92)
- ERDC_CERL_SR-05-40, Engineered Management Systems in War, An In-Theater Application of BUILDER (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=99)
- ERDC_CERL SR-08-1, Condition Assessment Aspects of an Asset Management Program (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=95)
- ERDC_CERL SR-18-7 _Knowledge-Based Condition Assessment Reference Manual for Building Component-Sections (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=96)
- ERDC_CERL TN-06-2, Building-Level Functionality Assessment (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=97)
- ERDC-CERL_TN-06-1, Knowledge-Based Inspection Capabilities (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=100)
- ERDC_CERL TR-11-38, Integration of Sustainment Management Systems (SMS) with the Army Installation Status Report for Infrastructure (ISR-I) (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=104)
- ERDC_CERL TR-10-17, Development of Army Facility Functionality Assessment Criteria and Procedures (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=98)
- ERDC_CERL TR-10-18, Development of the Army Facility Mission Dependency Index for Infrastructure Asset Management (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=105)
- ERDC_CERL TR-12-13, Facility Degradation and Prediction Models for Sustainment, Restoration, and Modernization (SRM) Planning (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=101)
- ERDC_CERL TR-18-9, Sustainment management system dams inspection module _ Department of Defense dams inventory and inspection te mplate (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=102)
- ERDC TR-12-14, Demonstration of a Rapid Energy Audit Procedure for use with an Army Sustainment Management System (SMS) (https://training.sms.erdc.dren.mil/mod/resource/view.php?id=103)

Custom Reports

- CERL Created

BUILDER Catalog 10
Final 1 – Facility Summary Report 11
Final 2 – System Summary Report 12
Final 3 – Component Details Report 13
Final 4 – Equipment Details Report 14
Final 5 – Inspection Summary Report 15
Final 6 – Distress Details Report 16
Final 7 – Work Action Summary Report 17
Final 8 – Work Action Details Report 18
Final 9 – Facility System Quick View Report 19
Inspection Locks Report 20
QA 01 – Missing or Low Inventory Report 21
QA 02 – Missing Components Report 22
QA 03 – Naming Discrepancies Report 23
QA 04 – Suspect Section Inventory Report 24
QA 05 – Missing Section Details Report 25
QA 06 – Missing Section Detail Images Report 26
QA 07 – Sections Without Inspections Report 27
QA 08 – Section Details Without Inspections Report 28
QA 09 – Section Details Discrepancies Report 29
QA 10 – Missing Inspection Comments Report 30
QA 11 – Section Condition Analysis Exception 31
QA 12A – Inspection Matrix – By Site, System, Inspector 32
QA 12B – Inspection Matrix – By Site, System 33
QA 12C – Inspection Matrix – By Site, Inspector, System 34
QA 12D – Inspection Matrix – By Inspector 35
QA 12E – Inspection Matrix – GRAPH – By Site, System 36
QC 1 – Facilities Report 37
QC 2 – Systems Report 38
QC 3 – Components Report 39
QC 4 – Component-Sections Report 40
QC 5 – Section Details Report 41
QC 6 – Inspections Report 42

- DIGON Created

DIGON – Audit 7
DIGON – Catalog 8
DIGON - Cost Modifier Assignments 9
DIGON – QA Review 10
DIGON – QA Review+Details 11
DIGON – Scenario Summary 12
DIGON – Site 13

Custom Reports

- CERL Created

https://support.sms.erdc.dren.mil/file.php/68GNDRSJTBNS67428D42C02/20160629_Prelim-Custom-Reports-Standard-Set_Licensees.pdf

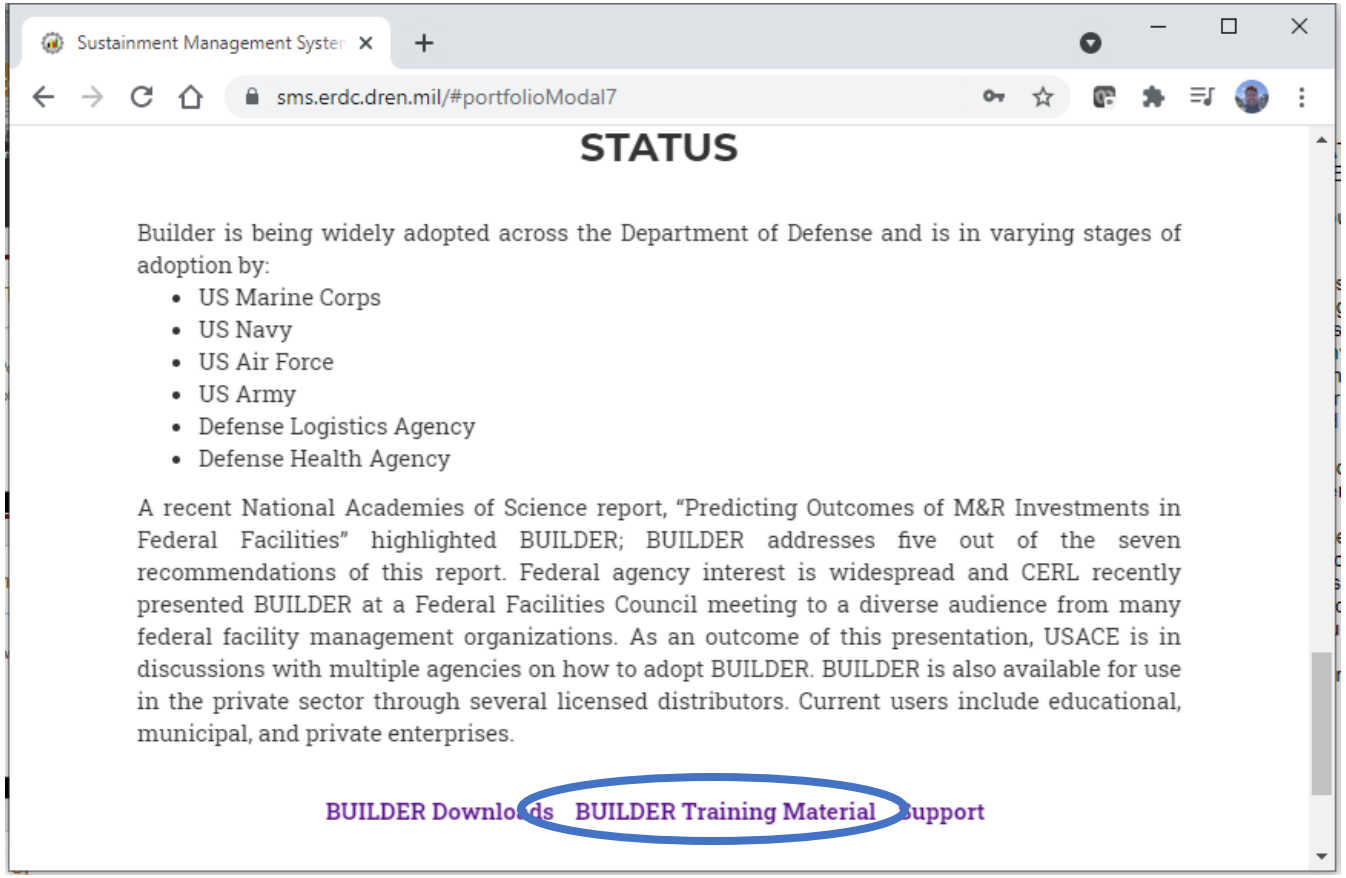
- DIGON Created

https://buildersummit.com/wp-content/uploads/2019/08/DIGON-Custom-Reports-Guide-2019.12.04.pdf

Online Training

https://www.sms.erdc.dren.mil/

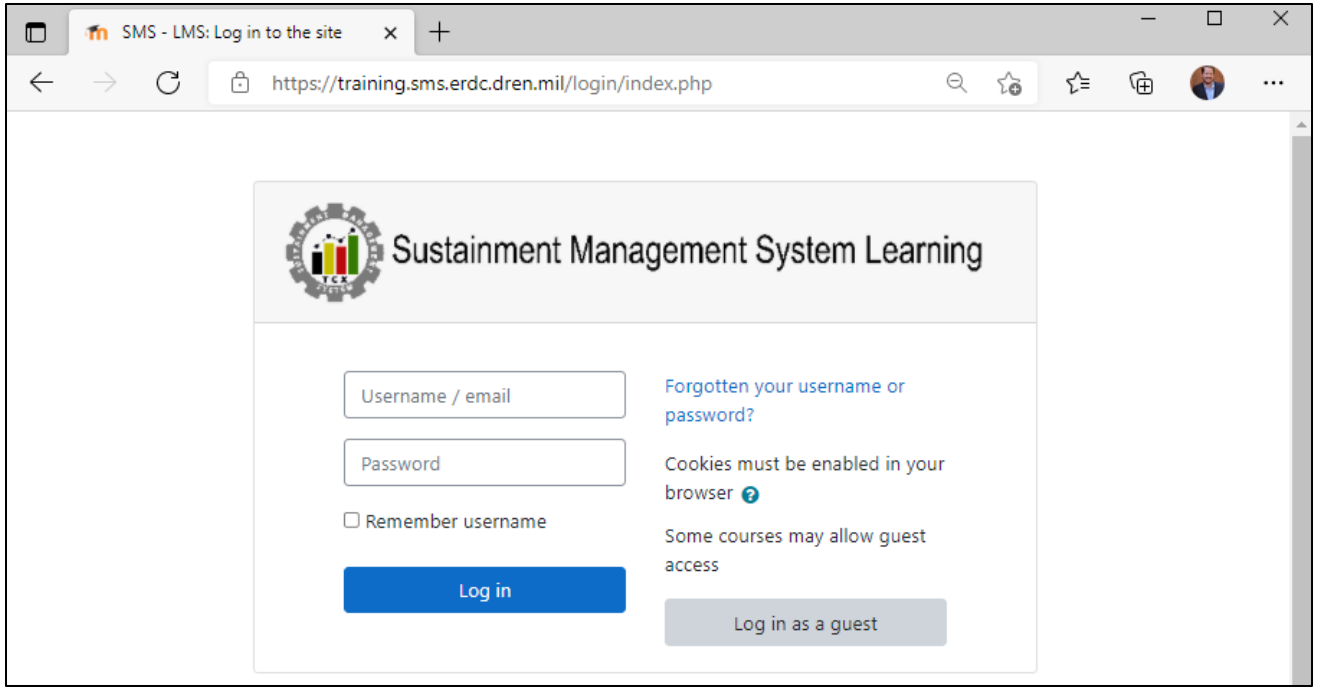
- Select BUILDER
- Scroll to bottom



Log In Options

Self-Registration on the LMS is currently restricted to specific email domains for the current SMS user community.

- dren.mil, army.mil, af.mil, navy.mil, mail.mil, uscg.mil, deca.mil, dia.mil, afit.edu, afcent.mil, anl.gov, mda.mil
- buildersupport@usace.army.mil

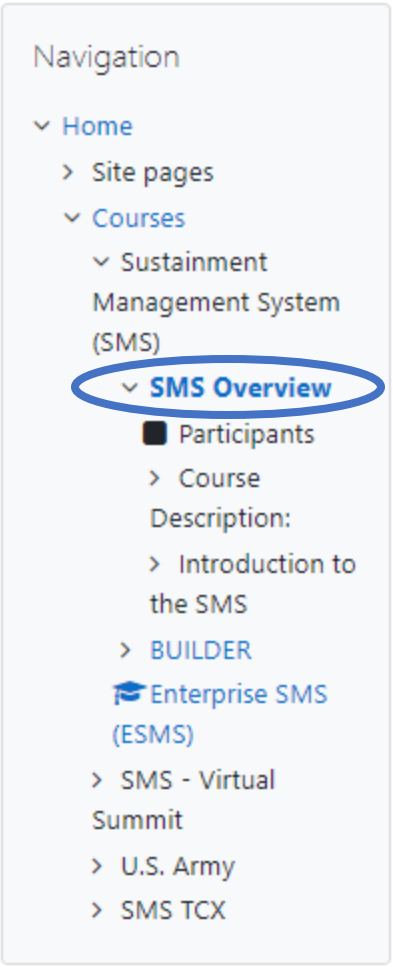


Content Available to Guests

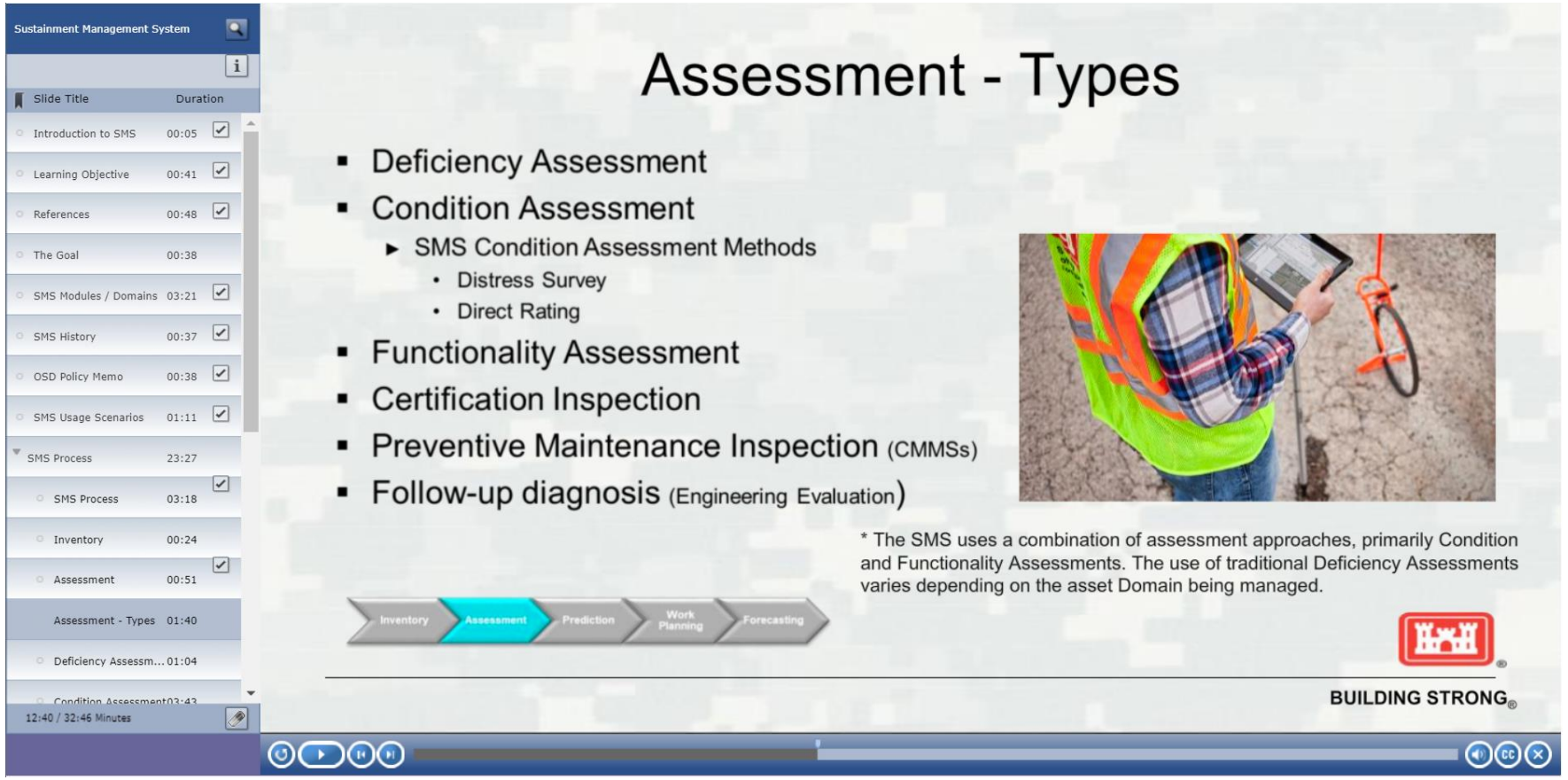
- SMS Overview
- BUILDER Training
- Army Reassessment Videos

SMS Overview

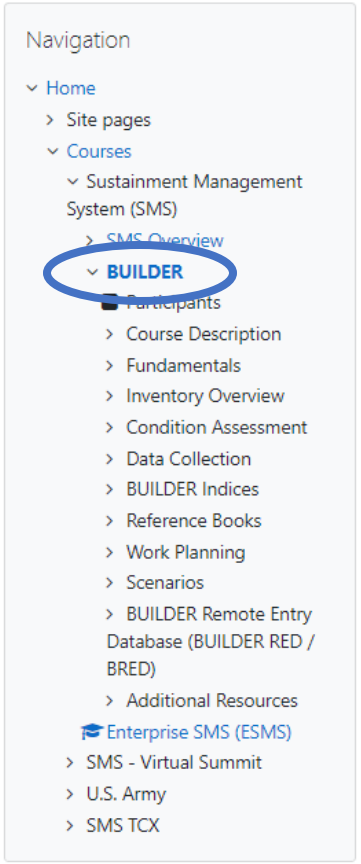
- **Description:** Provides a broad overview of the Sustainment Management System (SMS). The participants will be introduced to the basic concepts of Inventory, Assessment, Prediction, Work Planning and Forecasting used by the SMS as well as how these concepts are implemented within the enterprise SMS architecture to meet the engineering and strategic objectives of asset lifecycle management.
- **Learning Objective:** The participants will be able to describe the fundamental concepts of the SMS Process.
- **Prerequisites:** None
- **Length:** 33 minutes
- **Style:** PowerPoint Slides w/ Audio



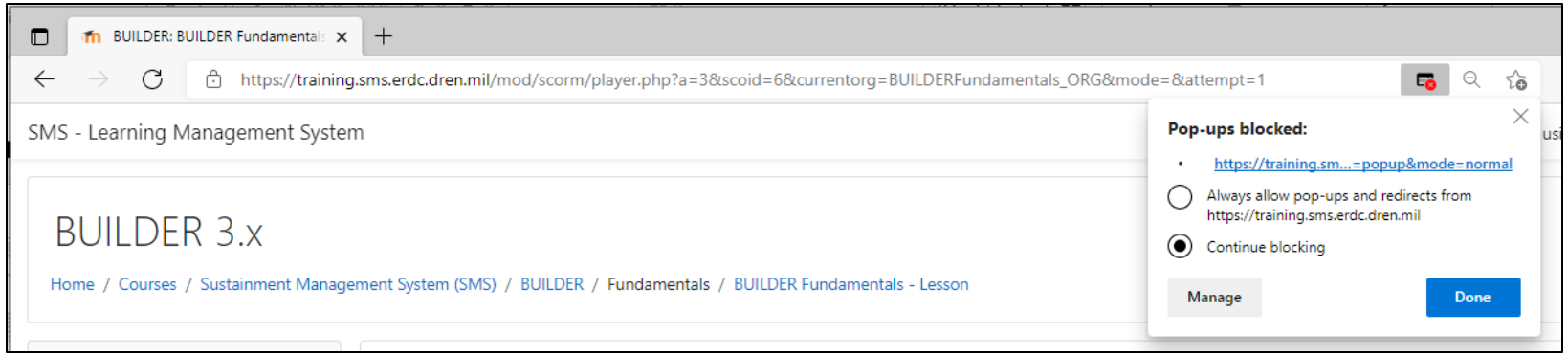
SMS Overview



BUILDER 3 Training



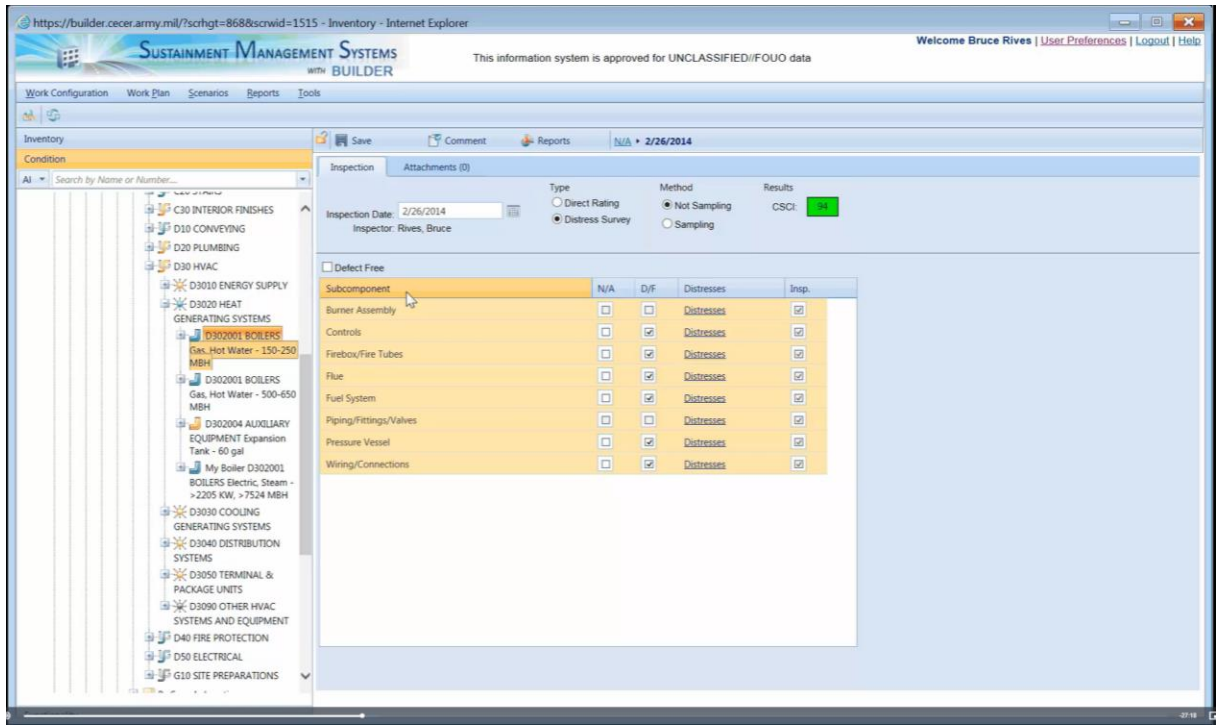
- **Course Description:** Provides a comprehensive overview of BUILDER.
- **Prerequisites:** SMS Overview
- **Length:** 5 Hours 30 Minutes
- **Tip:** Disable Pop-ups



Content Types

Lessons

Demo Videos

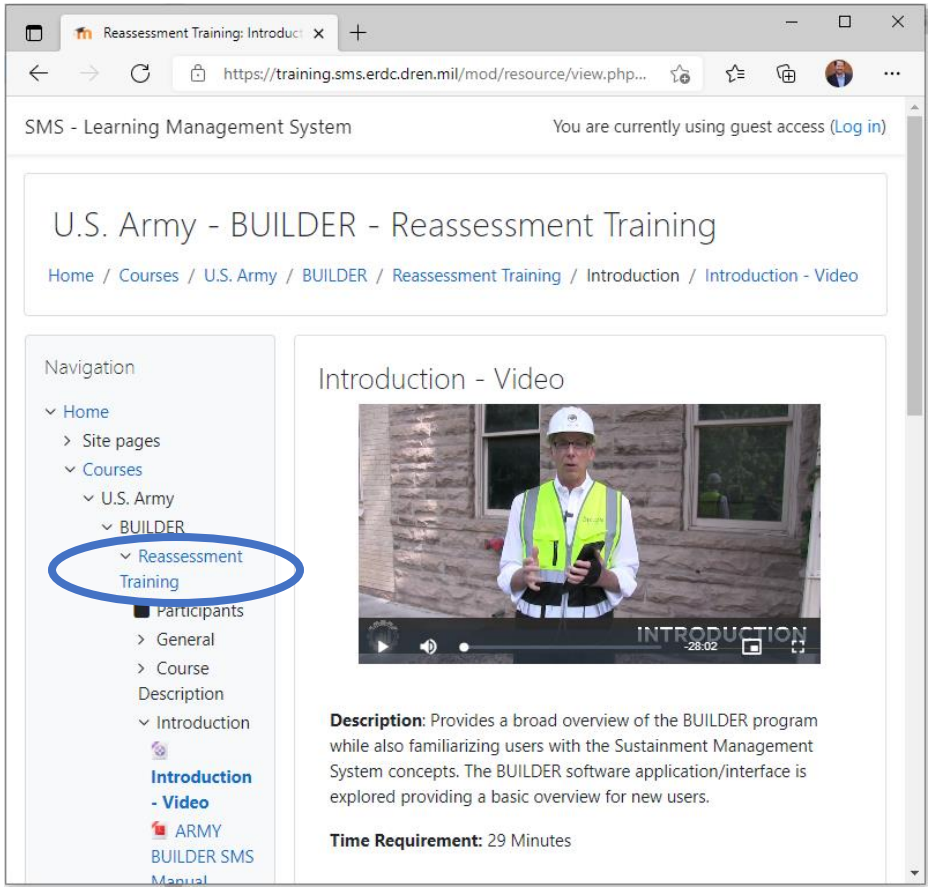


BUILDER 3 Content

- **Fundamentals:** 21 Min Lesson – 9 Min Video
- **Inventory:** 29 Min Lesson – 30 Min Video
- **Condition Assessment:** 33 Min Lesson – 39 Min Video
- **Data Collection:** 9 Min Lesson – 11 Min Video
- **BUILDER Indices:** 27 Min Lesson – 4 Min Video
- **Reference Books**: 11 Min Lesson – 12 Min Video
- **Work Planning:** 25 Min Lesson – 29 Min Video
- **Scenarios:** 11 Min Lesson – 29 Min Video
- **BRED:** 6 Min Lesson – 55 Min Video

Army Reassessment Videos

- **Description:** Provides an overview of Army requirements for BUILDER Reassessments
- **Prerequisites:** None
- **Length:** 3 hours
- **Style:** On-location Video



Long Video Content

Introduction: 29 Minutes

- Provides a broad overview of the BUILDER program while also familiarizing users with the Sustainment Management System concepts. The BUILDER software application/interface is explored providing a basic overview for new users.

Inventory: 38 Minutes

- Covers inventory basics and Army Guide requirements that allow for consistency within the BUILDER interface. Will familiarize participants with Lifecycle Curves and show participants how to see all inventory. Covers navigating the inventory levels of BUILDER (Organization, Site, Building, System, Component, and Section) and highlights the specific ways inventory is organized for consistency.

Inspection: 36 Minutes

- Discusses the differences and interchangeability between an Inspection and a Re-inspection. Highlights inspections are non-destructive and non-invasive. Also, introduces steps for consistency – BUILDER has rules and definitions while the Army Guide has specific procedures to ensure Condition Index (CI) consistency.

Business Rules & Data Quality: 37 Minutes

- Discusses content within the Army BUILDER SMS Inventory and Assessment Guide and its importance for participants. Defines the business/inspection rules and quality data which allows participants to achieve the primary objectives for BUILDER. Also, covers the BUILDER Remote Entry Database (BUILDER RED / BRED) process and key points of using the application.

https://youtu.be/kKaxWD7rixM?t=1789

UNIFORMAT II - System Videos

Inventory Rules, Typical Distresses, Safety, Army Scope

(https://youtu.be/s0zRQ9BqEok?t=63)

- **A10 Foundations:** 6 Minutes
- **A20 Basement Construction:** 5 Minutes
- **B10 Superstructure:** 4 Minutes
- **B20 Exterior Construction:** 9 Minutes
- **B30 Roofing:** 8 Minutes
- **C10 Interior Construction:** 8 Minutes
- **C20 Staircases:** 8 Minutes
- **C30 Interior Finishes:** 8 Minutes
- **D10 Conveying:** 4 Minutes
- **D20 Plumbing:** 9 Minutes
- **D30 HVAC:** 11 Minutes
- **D40 Fire Protection:** 5 Minutes
- **D50 Electrical:** 10 Minutes
- **E10 Equipment:** 5 Minutes

Content Requiring Registration

- SMS Virtual Summit - Fall 2020
- ESMS Training