ODIN
Sailor Self-Sufficiency Ecosystem (SSES)

NSRP 2025 All Panel Meeting

Feb 26, 2025

Valkyrie ENTERPRISES

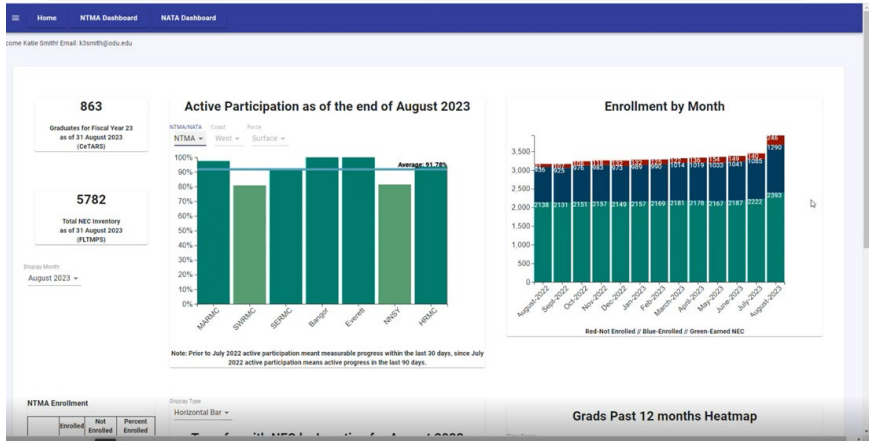
Operationally Directed Instructional Network – (ODIN)

- ODIN, or Operationally Directed Instructional Network, is an online cutting-edge Learning, Talent, and Competency Management system developed by Valkyrie Enterprises. Currently utilized by the Commander, Navy Regional Maintenance Center (CNRMC) for the Navy Afloat Maintenance Training Strategy (NAMTS) program, ODIN is designed to enhance shipboard organic maintenance, self-assessment capabilities, and material self-sufficiency, ultimately improving Naval fleet readiness.
- This robust system allows Naval leadership to monitor progress toward achieving Navy readiness by objectively defining and tracking Sailor proficiencies at various levels, including Apprentice, Journeyman, and Master Craftsman.
- As a Phase III SBIR, ODIN is available via sole source contract and can be tailored to any workforce, ensuring the right person with the right competency is in the right place at the right time.
- Based on MOODLE and MongoDB – developed by Virginia Digital Maritime Center, ODU

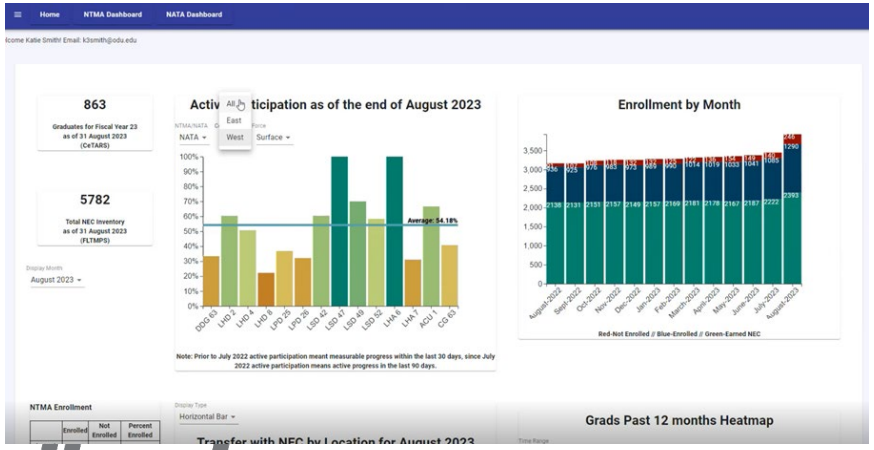
ODIN Administration Portal

- Admin portal provides student training analytics in dashboard format.
- Tailored information based on selectable factors in dropdown menus.
- Performance analysis of training program.
- History of student interactions with ODIN and curriculum.

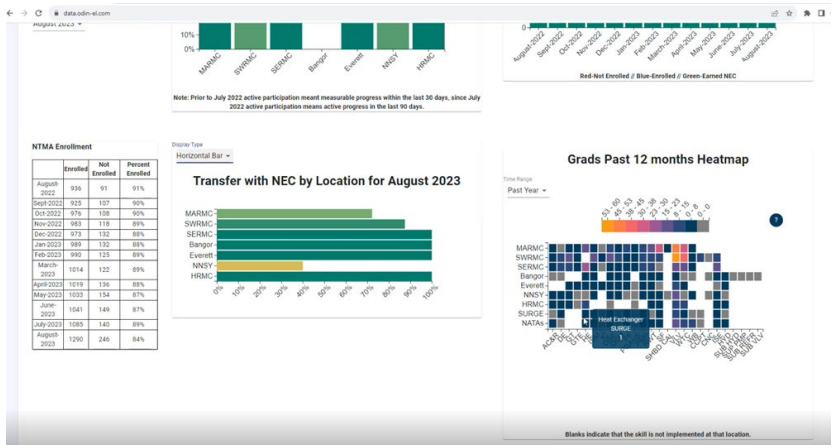
Student Management by Course and Location



Student Graduation Metrics

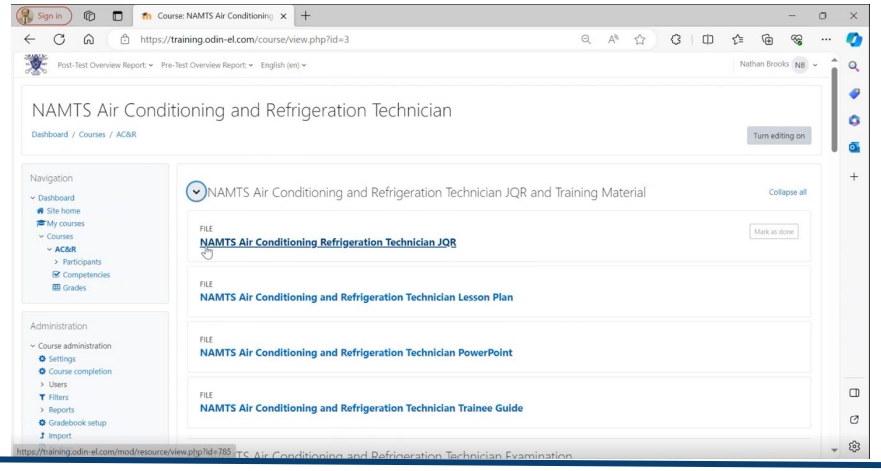


Training Analytics and Heatmap of Instruction

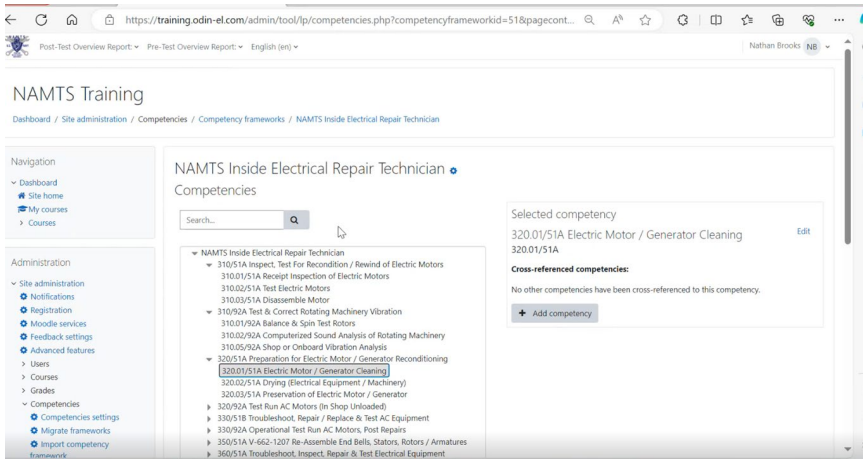


ODIN LMS Student Engagement

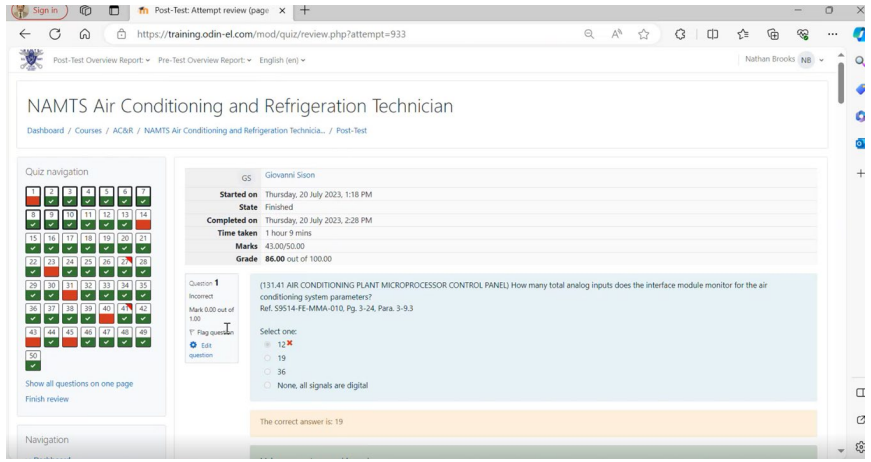
Student Enrollment Site



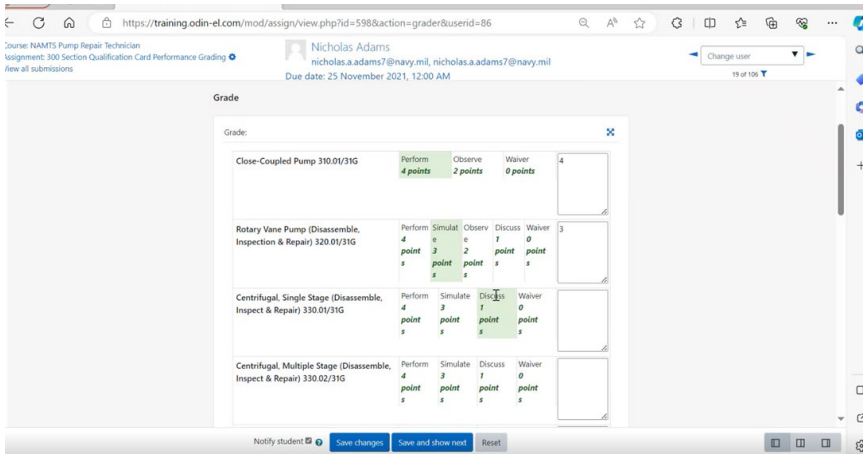
Student Curriculum



Student Online Testing



Student Competency Scoring



ODIN is available for Commercial Applications

- ODIN can be white labeled and tailored for Eastern Shore Community College (ESCC) as a commercial Software as a Service (SaaS) product.
- ODIN's comprehensive Learning, Talent, and Competency Management system can be customized to monitor, track, and measure student progress through tailored competency and proficiency models.
- Additionally, ODIN's training analytics, heatmap of instruction, and detailed performance analysis offer valuable insights into student interactions and curriculum effectiveness.
- By providing mobile access to training, automated feedback, and the ability to record competency-building activities, ODIN ensures that students and faculty have the tools they need for success.
- This tailored approach not only enhances the educational experience but also provides administrators with a holistic view of student progress and return on investment metrics, making ODIN an ideal SaaS solution.

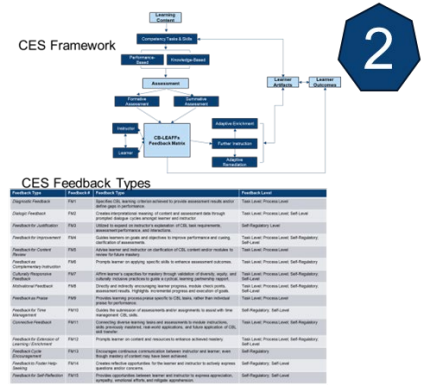
Future Development

Student Self-Sufficiency Ecosystem (SSES)

SSES Development

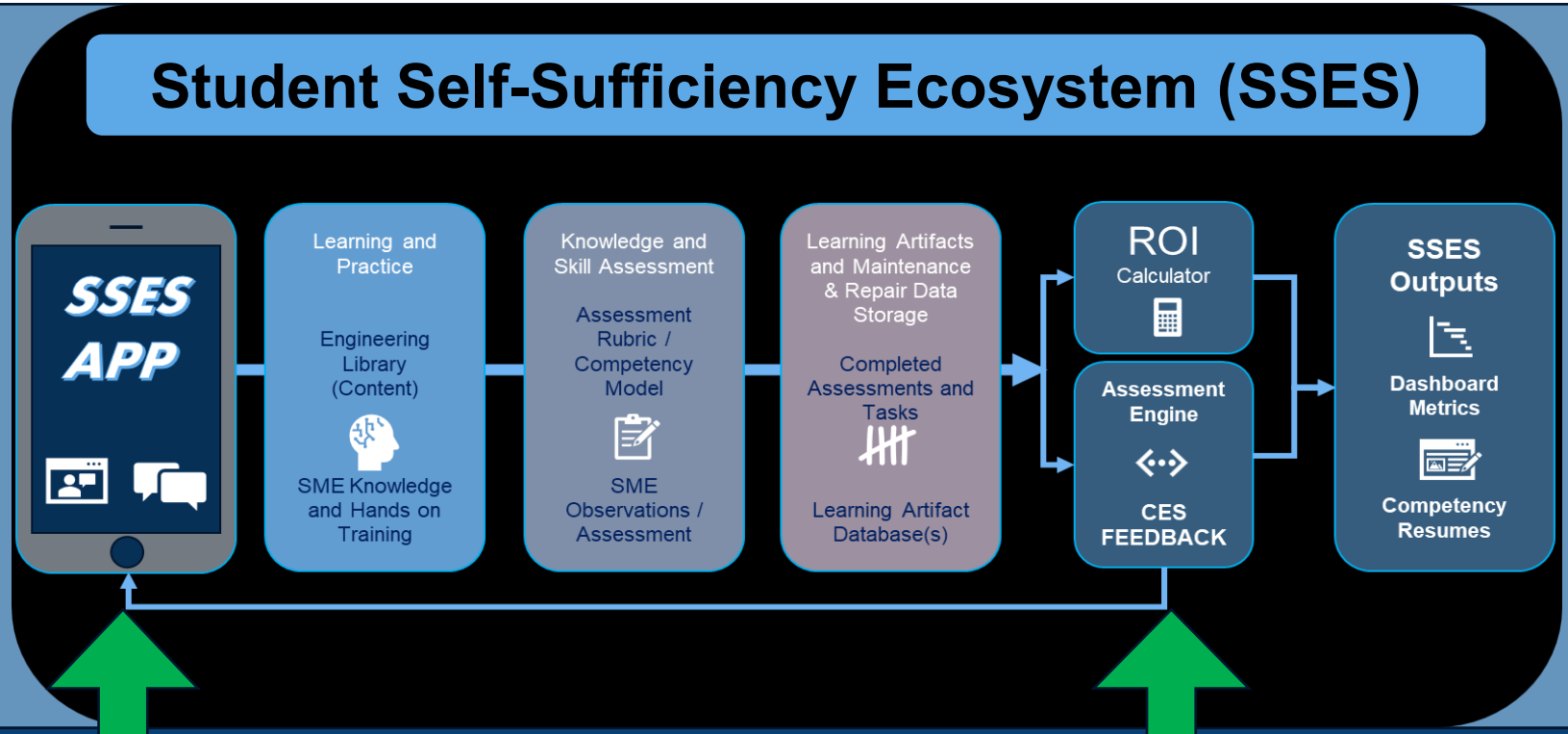
- Integrate the Competency Evaluation System:
  - Derive and extend the Competency Evaluation System (CES) Phase I technology.
  - Utilize CES to provide direct feedback to learners and document competency assessments.
  - Framework of Competency Feedback to support gaining and documenting competency assessments.
  - Assessor provides direct input to learner competency.

- Develop a Mobile APP for Student Access:
  - Provide an SMS APP for two-way communications between Learner/Assessor and the Competency Evaluation System.
  - Provide Students with mobile device access to their training and curriculum at all times.
  - Enable students to record sets/reps using the APP to build their competency resume.
  - Automated feedback via the APP to support competency progression and ROI metrics.



ODIN Enhancements – Student Self-Sufficiency Ecosystem

New technology to form ODIN 2025



Competency Evaluation System Incorporated into ODIN via an APP

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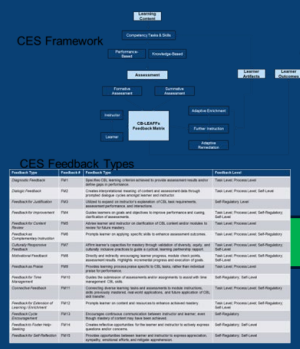

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Demonstration