



amplifire

When Learning Matters

# 2022 COURSE CATALOG (Q3)

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## SAFETY AND QUALITY ESSENTIALS LIBRARY

The Safety and Quality Essentials Library has been developed in conjunction with multiple health systems. It is designed to improve patient safety through the prevention of hospital-acquired conditions (HACs) while simultaneously promoting the early recognition, management, and communication of conditions that can lead to avoidable harm.

### Infection Prevention Courseware

- CAUTI Prevention
- CLABSI Prevention
- Preventing and Managing *C. difficile*
- Preventing Surgical Site Infections
- Safe Injection Practices
- Sepsis: Recognizing and Managing

### Diagnoses and Management Courseware

- Can't Miss Diagnoses: Aortic Dissection
- Can't Miss Diagnoses: Epidural Abscess
- Can't Miss Diagnoses: Necrotizing Fasciitis
- Cardiogenic Shock

### Clinical Support Staff Courseware

- Blood Pressure
- EKG
- General Knowledge
- Injections

**Target Audience:** Providers, Nurses, Clinical Support Staff

### Learning Objectives

- Reduce the financial burden of unreimbursed Hospital-Acquired Conditions (HACs) and CMS penalties
- Improve the knowledge of clinicians to increase the quality of care
- Identify/remediate areas of clinical risk individually and organizationally

### Prevention and Avoidance of Harm Courseware

- Management of Type 2 Diabetes Mellitus
- Preventing Patient Falls
- Preventing Pressure Injuries
- Safe Surgery
- Traumatic Brain Injury

### Opioids: Safe Prescribing Practices Courseware

- Opioids: Safe Use and Management
- Opioids: Neonatal Abstinence Syndrome
- Medication-Assisted Treatment (MAT)\* (2022)
- Screening and Monitoring\* (2022)





## ORGANIZATIONAL CULTURE

Whether orienting new co-workers and medical staff members, or training those who've been affiliated with the organization for some time, Amplifire offers a proven way to assure that critical content is delivered and retained at scale. In the pandemic's aftermath and with heightened awareness about health equity, it's never been more important for healthcare provider organizations to ensure that essential concepts associated with quality and safety, as well as diversity, equity and inclusion (DE&I) are conveyed in time-efficient and effective ways.

The Organization Culture Library now includes the first of many courses that will enable leaders to reinforce critical learning objectives in ways that will shape the patient experience, foster collaboration among providers and employees, and create a safe and respectful environment for all. As always, each course can be further modified to ensure that the final version is fully aligned with the values, policies and teaching points that are vital to the sponsoring organization.

### Organizational Culture

- **Diversity, Equity, and Inclusion**
- **Patient Safety - Physician Edition**
- **Cognitive Bias in Decision Making**
- **Serious Illness Conversation**
- **Workplace Violence Prevention**



## ELECTRONIC HEALTH RECORD: EPIC CLINICAL LIBRARY

Research indicates that user ratings on the quality of training are the single greatest predictor of overall Electronic Health Record (EHR) user experience<sup>1</sup>. These findings are leading health systems to re-invest in new and innovative training approaches.

Amplifire developed the Epic EHR Training Library in conjunction with UCHealth to help physicians, nurses, and technicians effectively navigate the patient record workflow, reduce onboarding and training time, and optimize overall use of the EHR system.

This library has been shown to cut time spent in classroom training by half, potentially saving tens of millions of dollars.

**Target Audience:** Providers, Nurses, Registration and Laboratory staff

### Learning Objectives

- Optimize the overall use of Epic to enhance EHR investment
- Leverage data to customize training for individual needs

### Inpatient Setting Courseware

- Inpatient CNA
- Inpatient Physicians/Providers
- Inpatient RN

### Outpatient Setting Courseware

- Outpatient MA
- Outpatient Physicians/Providers
- Outpatient RN

### Hybrid Setting Courseware

- Inpatient/Outpatient Hybrid Physicians/Providers

### Laboratory Courseware

- Epic: Beaker Lab Techs
- Epic: Beaker Phlebotomists

### Emergency Department Setting Courseware

- Emergency Department for Physicians/Providers
- Emergency Department RN
- Emergency Department Tech/MA

### Specialties Courseware

- Anesthesiology Physicians/Providers
- Obstetrics Physicians/Providers
- Surgery Physicians/Providers



## ELECTRONIC HEALTH RECORD: CERNER LIBRARY

Research indicates that user ratings on the quality of training are the single greatest predictor of overall Electronic Health Record (EHR) user experience<sup>1</sup>. These findings are leading health systems to re-invest in new and innovative training approaches.

Amplifire developed the Cerner EHR Training Library in conjunction with MedStar to help physicians, nurses, and technicians effectively navigate the patient record workflow, reduce onboarding and training time, and optimize the overall use of the EHR system.

### Inpatient Setting Courseware

- [Inpatient Providers](#)
- [Inpatient RN](#)

This library has been shown to cut time spent in classroom training by half, potentially saving tens of millions of dollars.

**Target Audience:** Providers, Nurses

#### Learning Objectives

- Optimize the overall use of Cerner to enhance EHR investment
- Leverage data to customize training for individual needs



## OBSTETRICS (OB) RISK REDUCTION LIBRARY

The Obstetrics (OB) Risk Reduction Library is being developed in conjunction with various Alliance Members and Alliance Partners. Trends over the past decade indicate a decrease in overall neonate adverse events and a substantial rise in maternal morbidity. The courseware is designed to address this and other complex issues facing Labor and Delivery care teams.

**Target Audience:** Providers, Nurses

### Obstetrics Courses

- [Postpartum Hemorrhage](#)
- [Electronic Fetal Monitoring](#)
- [Shoulder Dystocia](#)
- [Hypertension in Pregnancy](#)

### Learning Objectives

- Reduce incidents and near-misses associated with the health and safety of pregnant women and their unborn children
- Reduce the financial burden of malpractice claims associated with Obstetrics
- Address the most frequently seen rule-based, skill-based, and knowledge-based active and latent errors in Obstetrics
- Target and reduce the most common system errors related to Electronic Fetal Monitoring (EFM) use including fear of conflict, knowledge deficits, and communication failures



## MEDICAL EQUIPMENT MANAGEMENT LIBRARY

The Medical Equipment Management Library was originally developed in partnership with Providence Health to take on the CRE Superbug appearing in the Olympus Duodenoscope. Through our partnership with the Association for the Advancement of Medical Instrumentation and eventually with Olympus directly, we are expanding this library to other high-risk equipment issues.

**Target Audience:** Providers, Nurses, Reprocessing Technicians, Imaging Technicians

### Learning Objectives

- Ensuring technical staff have the proper and proven training to avoid error and infection

### Medical Equipment Management Courses

- Reprocessing: Olympus Evis Exera Q180 Duodenoscope
- Reprocessing: Olympus Evis Exera 160VF, 160F, & Q180V Duodenovideoscopes
- Reprocessing: Olympus TJF-Q190V Duodenoscope
- Reprocessing: Pentax ED-3460TK Video Duodenoscope
- Surgical Sterile Instrument Processing (Centralized Sterile Processing)
- Syringe Infusion Pump Safety
- Mammography
- Imaging Appropriately
- EKG Interpretation Assessment





## COMPLIANCE LIBRARY

The Compliance Library has been developed in conjunction with MedStar Health and Brigham and Women's Hospital. By design, it addresses a variety of topics that have regulatory and accreditation relevance. Like all Amplifire courses, the Compliance Library elements actively engage learners and adapt to each individual's knowledge base, thereby keeping the content relevant by focusing on un-mastered material.

### Compliance Courses

- **Corporate Compliance**
- **Emergency Preparedness and Response**
- **Fire Safety**
- **General Safety**
- **Hazard Communications**
- **Infection Prevention and Control—Clinical or Non-Clinical**
- **Laboratory Specimen Collection and Labeling**
- **Patient Care Assessment and Patient Safety**
- **Patient Rights—Clinical or Non-Clinical**

**Target Audience:** Clinical Audience/Non-Clinical Audience

### Learning Objectives

- Reduce compliance training time by 50-75% compared to traditional methods, while improving content retention
- Identify and remediate cognitive biases that cause compliance-related issues
- Convey the latest compliance best practices to keep the workforce up-to-date



## ANALYTICS AND IMPROVEMENT LITERACY LIBRARY

### Analytics and Improvement Literacy for Analysts

Analysts bring the most value to healthcare organizations when they can solve problems and become partners in clinical and operational improvement work. This requires an ability to contextualize and analyze data to surface improvement opportunities — and then communicate those opportunities with their leaders. This program provides analysts with the core competencies needed to move from reactive report writing to proactively discovering insights that lead to meaningful improvements.

Key needs addressed

- Provide analysts with the context, value, and role of data
- Empower analysts to generate insight to drive improvement work
- Communicate insights to technical and non-technical audiences with effective data visualization through data visualization
- [Healthcare Data](#)
- [Healthcare Operations](#)
- [Data Analysis](#)
- [Data Visualization](#)
- [Process Improvement](#)
- [Project Management](#)
- [Communication](#)
- [Data Modeling](#)

### Analytics and Improvement Literacy for Leaders

Every day, healthcare leaders swim in an ocean of data, dashboards, and reports. But dashboards and reports alone don't yield dramatic and sustained improvements. This series of powerful learning experiences will enhance leaders' analytics literacy, enabling them to generate more meaningful insight from their data. Learning experiences are delivered in Amplifire, an online platform known for enabling rapid and effective learning that leads to better patient outcomes.

Key needs addressed

- Provide leaders with the context, value, and role of data
- Empower leaders to independently generate insight and engage with analysts in complex data analysis
- Propose improvement opportunities in a compelling manner through data visualization
- [Healthcare Data](#)
- [Healthcare Operations](#)
- [Understand and Interpret Analysis](#)
- [Data Visualization Basics](#)
- [Process Improvement](#)



## REVENUE CYCLE MANAGEMENT LIBRARY

### Revenue Cycle Management Courseware

Preventable errors and inefficiencies within the revenue cycle cause lost revenue. Many of these challenges can be addressed through improved training. The Revenue Cycle Management Library has been developed by various partners throughout the Healthcare Alliance. The library is designed to improve financial outcomes, patient satisfaction, and user experience.

**Target Audience:** Schedulers, Registrars, Coders, and Back Office staff.

- [Radiology Front Desk: Epic Version](#)
- [Emergency Department Registration: Epic Version](#)
- [Registration Basics: Epic Version](#)
- [Inpatient Coding: Epic Version](#)
- [Outpatient Coding: Epic Version](#)
- [RegEd: Insurance Basics](#)



## HOSPICE, PALLIATIVE, AND RESTORATIVE CARE LIBRARY

### Available Through Associations

This library was developed with two key partners:

- American Academy of Hospice and Palliative Medicine
- Association of Rehabilitation Nursing

Due to the effects of chronic diseases on an aging population, the need for caregiving for older adults by formal, professional caregivers will increase sharply during the next several decades.

In 2014, about 67,000 paid, regulated long-term care services providers served about 9 million people in the United States.

In 2015, hospice patients received a total of 96,052,577 days of care paid for by Medicare.

Two factors — longer life spans and aging baby boomers — will combine to double the population of Americans aged 65 years or older during the next 25 years. By 2030, older adults will account for roughly 20% of the US population.

**Target Audience:** Individual practitioners

- **Essentials of Hospice and Palliative Care:**  
*9 modules*
- **Introduction to Rehabilitation Nursing:**  
*16 modules*
- **Restorative Nursing Assistant:**  
*5 modules*



## COURSES IN DEVELOPMENT

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### Advanced Electronic Fetal Monitoring

Nurses and staff will have gain advanced understanding and practice with fetal heart monitoring. The course presents the latest evidence and advanced concepts such as variability and physiology.

### EPIC Stork

This course examines activities specific to the Obstetrician's role:

- L&D Grease Board and Manager
- Patient Chart
- OB Navigators
- Med Rec
- Orders and Order Sets
- Delivery
- Transfer
- Discharge
- Charges



## COURSES IN DEVELOPMENT

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### EPIC RN Student

**Target Audience:** Inpatient Nurses

**Time to Complete:** 2 hours

**Course Description:** This course teaches learners the basics of Epic use (including Chart Review, Patient Lists, etc.), and also examines Navigators and Activities specific to the inpatient nurse's role.

- Navigate and customize Patient Lists
- Find and update patient information in the Patient Chart
- Search for reports and lab information
- Use the Brain to find and document Tasks
- Appropriately document in Flowsheets and the LDA Avatar
- Find, add, and modify orders and order sets
- Use the Mar to document medication administration
- Prepare the AVS and Discharge Instructions

**Co-Developer:** UCHealth

### EPIC Professional Billing

This Professional Billing class refreshes the student on:

- Revenue Cycle
- Billing Terminology
- PB Workqueues
- Guarantor Snapshot & Finding Critical Information (charges, invoices, payments, adjustments, etc.)





## COURSES IN DEVELOPMENT

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### ICU Liberation

An intensive care unit stay can have deleterious consequences for patients. ICU liberation is the proactive management of specific domains to help relieve, if not altogether eliminate, these consequences.

Patient outcomes are improved when all members of the ICU care team work together to implement the following practices: assess, prevent, and manage pain, utilize spontaneous awakening trials and spontaneous breathing trials (SATs and SBTs), choose analgesia and sedation wisely, implement early mobility and exercise, and assess, prevent, and manage delirium. These elements are collectively referred to as the ICU Liberation Bundle. Additionally, further improvement of outcomes occurs with prevention and early detection of delirium through specific validated tools found in Module 2.

After taking this two-module course, learners will be able to evaluate patient care through the lens of liberating patients from potential ICU harm. They will learn to recall the elements of the ICU Liberation Bundle, identify gaps in ICU patient care, and implement interventions and documentations into their workflow.



## About Amplifire

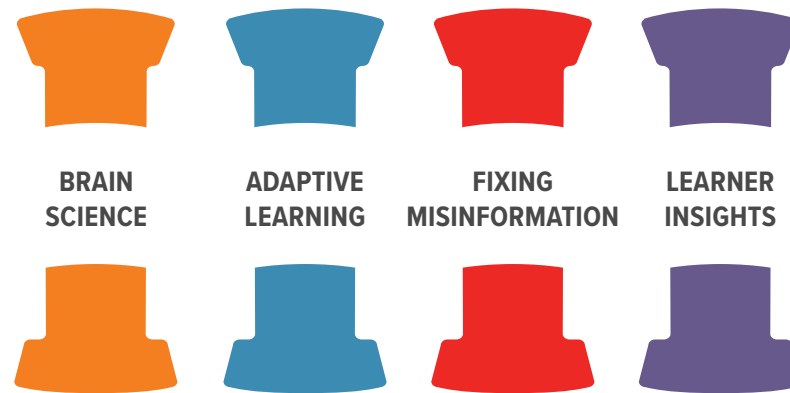
amplifire

With nearly 3.5 billion learner interactions to date, the Amplifire training platform helps hospitals and health systems thrive by improving on-the-job performance of care team members and other employees. Patented algorithms detect and correct the knowledge gaps, doubts, and misconceptions that Amplifire has discovered in clinician's minds in every care setting.

Healthcare systems have adopted Amplifire as a core operating asset that transforms training from a rote activity, where managers only hope for results, into a strategic tool that delivers a workforce aligned with evidence-based, best practices. Simply put, it saves lives while lowering costs.



## Foundations



### A learning platform built on four pillars

#### **Brain Science**

The Amplifire platform uses 23 cognitive and emotional triggers that boost learning and long-term memory. Combining over twenty years of research with nearly 3.5 billion learner interactions to date, the platform creates a learning experience like no other that rapidly moves people to knowledge mastery.

#### **Adaptive Learning**

Amplifire is Socratic, asking questions first to assess learners' knowledge and confidence. With this unique dataset, algorithms then create a personal path to mastery for each individual. For example, it may take one learner 15 minutes to travel a particular learning path and reach mastery. Another learner might take 23 minutes to master the topic along a completely different path.

#### **Fixing Confidently Held Misinformation (CHM)**

Amplifire finds and fixes CHM — information a person believes is correct but is actually wrong. CHM is the precursor to mistakes because misplaced confidence drives the wrong behavior. In hundreds of Amplifire deployments, CHM is always present at between 18% and 42% of workforce knowledge. Eliminating CHM fixes mistakes before they happen.

#### **Learner Insights**

Dashboards provide a view into each learner's journey. You can see where learners are struggling and which instructors or modalities are most effective. For the first time, you now have tangible evidence that individuals have learned.



## Alliance Members

The Amplifire Healthcare Alliance is a collaborative of leading health systems, their affiliated providers, and an array of key partners that support those that deliver healthcare services. This expanding group shares a commitment to improve clinical quality and patient safety, reduce avoidable harm, and enhance caregiver wellness.

Alliance Members use Amplifire courseware to enhance performance, and they agree to assess efficacy of the training as well as to share learner-level data (blinded and aggregated) to the benefit of other participating organizations. Members often have opportunities to co-develop content and participate in the revenue share from the sale of that courseware.

Members include, but are not limited to the following:



## *Alliance Partners*

The Amplifire Healthcare Alliance is also honored to work closely with the following partners, all of whom provide content, services or technology that aids Alliance Members.

Special thanks to the Alliance Partners for enabling improved health system and caregiver performance, as well as for distributing Amplifire-based courses.





## Clinical Innovation Advisory Board

We are guided in our efforts by our prestigious Clinical Innovation Advisory Board, led by Brent James, MD. This group works to ensure that we are asking the right questions, attacking the right problems, and honestly and correctly evaluating the efficacy of our efforts.



**Brent C. James, MD, MStat**

Clinical Professor at the Clinical Excellence Research Center, Stanford University School of Medicine. Chairman, Amplifire Innovation Advisory Board. [NY Times article](#)



**Maureen Bisognano, MS**

National Academy of Medicine; President Emerita and Senior Fellow, Institute for Healthcare Improvement (IHI). [IHI Video](#)



**Terry Fairbanks, MD, MS**

Professor of Emergency Medicine, Georgetown University Hospital; VP and Chief Quality and Safety Officer, MedStar Health. [Human Factors Video](#)



**Peter Pronovost, MD, Ph.D., FCCM**

Chief Clinical Transformation Officer at University Hospitals, Professor at the Johns Hopkins School of Medicine. [Wikipedia](#)



**Lucy A. Savitz, Ph.D., MBA**

Director, Center for Health Research and Vice President, Health Research, Kaiser Permanente Northwest. [Kaiser](#)





## Learning Science Advisory Board

We work with the top Human Learning Science labs in the United States to understand the neuro-mechanics of human learning so we can develop the most advanced evidence-based learning platform in the world.



Robert Bjork, PhD, is UCLA's former Chair of Psychology and past president of the Association of Psychological Science. He is a pioneer in the role of desirable difficulties and the counterintuitive nature of learning. His work, and that of his wife Elizabeth, is the basis for Malcolm Gladwell's *David and Goliath*. [Bjork Lab](#)



Dan Schacter, PhD, is Harvard's former Chair of Psychology. He has written eight books, including *The Seven Sins of Memory* and *Psychology* a university-level textbook, as well as 300 scientific articles. [Schacter Lab](#)



Chad Lane, PhD, is a professor at the University of Illinois interested in the foundational theories and practices of educational psychology, including the application of AI to learning and development. [At UofI](#)



Elizabeth Bjork, PhD, is the co-principal investigator of the Bjork Learning and Forgetting Laboratory. Her work has shown that forgetting is not the tendency of a limited system, but the consequence of an adaptive one. [Bjork Lab](#)



Rich Mayer, PhD, is UCSB's former Chair of the Department of Psychological & Brain Sciences. For fifteen years, Educational Psychology ranked him the "most productive educational psychologist in the world."



Robert Birnbaum, MD, PhD, is the Director of Continuing Professional Development at Mass General Brigham and the founding Executive Director of the Massachusetts General Hospital Academy.



Kathleen McDermott, PhD, is a Professor of Psychology at Washington University who investigates human memory encoding and retrieval and how they interact.



Roddy Roediger, PhD, is Washington University's former Chair of Psychology and Chair of the governing board of the Psychonomic Society. He is the co-author of *Make It Stick* and over 175 research papers.



## SpotCheck

FREE

to Qualifying Healthcare Systems

The Safety and Quality SpotCheck was developed in conjunction with multiple health systems. It rapidly discovers knowledge issues around patient safety and prevention of hospital-acquired conditions.

It reveals where clinicians are misinformed about the early recognition, management, and communication of conditions that can lead to avoidable harm.

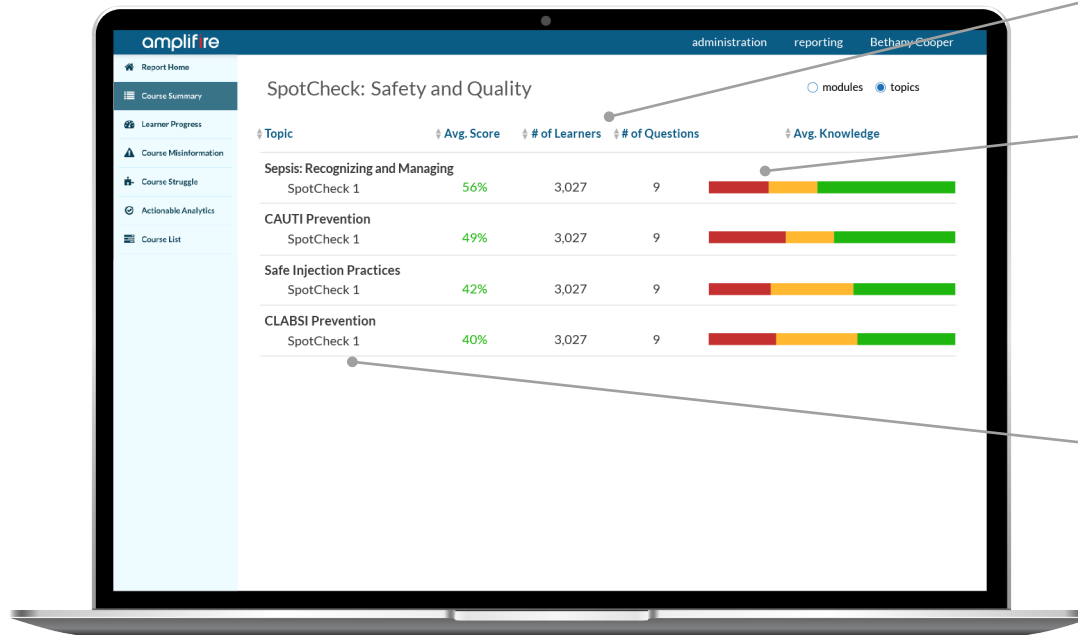
### Rapid and Informative:

- Takes 12 to 15 minutes
- Target Audience: Providers/Nurses/Support Staff

### Knowledge Areas Assessed:

- CAUTI and CLABSI Prevention
- Sepsis: Recognizing and Managing
- Safe Injection Practices

## SpotCheck Dashboard



Results can be sorted by topic, score, # of learners, # of questions, or knowledge for all learners

Average Knowledge shows the predicted levels of...

- Confidently held Misinformation
- Uncertainty
- Proficiency

Topics show the variety of competencies analyzed



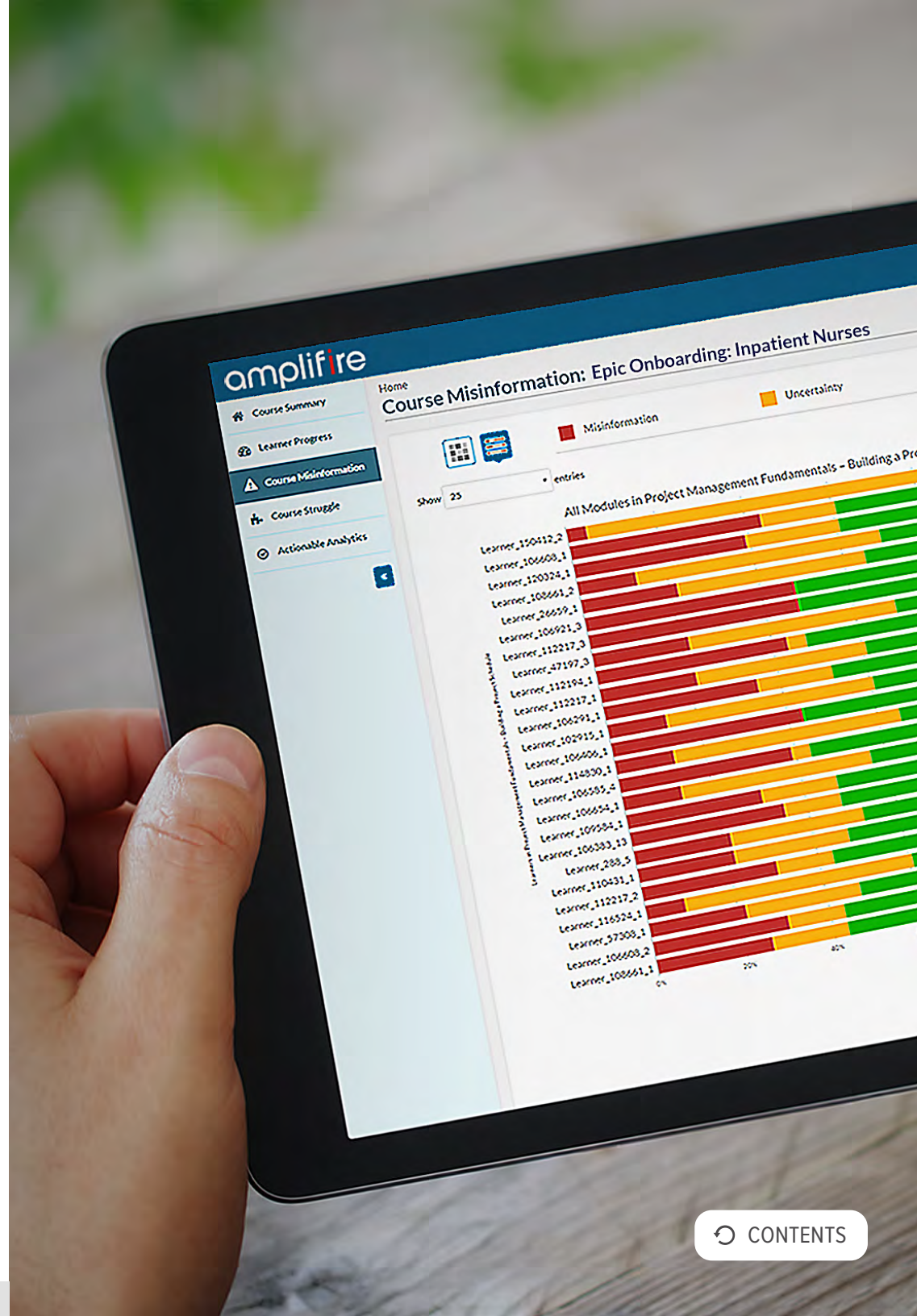
- Personalized algorithm that eliminates knowledge gaps, uncertainty, and confidently held misinformation
- AI-based virtual coach that nudges, praises, and refreshes knowledge for each individual learner
- Scalability with over 3.5 billion interactions to date
- Engages clinicians through cognitive triggers based in psychology and gaming theory
- Improved clinical outcomes, as well as reduced training time, enhanced retention, better learner experience, lower unreimbursed expenses and significant ROI

Please get in touch to demo Amplifire and see if it's right for your healthcare system:

720-799-1300

info@amplifire.com

Learn more: [amplifire.com](http://amplifire.com)





THANK YOU FOR  
TRUSTING US WITH YOUR  
LEARNING EXPERIENCE.

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