

Course 5 Adverse Events Following Immunization (AEFI)

Monitoring Systems and Response Strategies

Module 1: Introduction and Foundational Concepts in AEFI

This module comprehensively covers Adverse Events Following Immunization (AEFI), including WHO/GAVI classification systems, frequency/severity categorization, and vaccine safety fundamentals. You'll learn about vaccine components, administration techniques, special population considerations, and emergency preparedness requirements. The content introduces essential pharmacovigilance concepts and global monitoring standards needed to identify, manage, and report AEFIs effectively within vaccination programs.

Module 2: AEFI Surveillance and Reporting Systems

This module integrates pharmacovigilance into AEFI monitoring systems, covering surveillance frameworks, reporting tools, and quality assurance. It examines the roles of regulatory authorities, pharmacovigilance centers, and immunization programs in safety monitoring. Participants will learn about technology solutions, data management, causality assessment, and global integration. Content highlights standardized classification, resource allocation, and international collaboration for effective vaccine safety surveillance.

Module 3: AEFI Investigation and Management

This advanced module covers systematic investigation and management of AEFI, including case identification, data collection, site inspection, stakeholder interviews, and causality assessment. Learn clinical management protocols, public health responses, and post-investigation actions. Apply investigation frameworks, classify causality, implement interventions, and develop quality improvement systems. Content emphasizes evidence-based decisions, system enhancement, and stakeholder collaboration to maintain public trust in vaccination programs.

Time Requirements & Credit Info

Course Description:

'Adverse Events Following Immunization (AEFI)' provides healthcare professionals with comprehensive training in identifying, reporting, investigating, and managing vaccine safety events. This specialized course aligns with WHO and GAVI frameworks to build expertise in pharmacovigilance systems, causality assessment, and effective response strategies. Participants will gain practical skills to strengthen vaccination safety monitoring, implement evidence-based management protocols, and maintain public confidence in immunization programs. Through systematic approaches to AEFI classification, surveillance, investigation, and response, this course equips healthcare providers with the knowledge and tools to contribute meaningfully to global vaccine safety initiatives while enhancing local immunization programs.

Course Overview

This comprehensive course is designed to provide healthcare professionals with specialized knowledge and practical skills in the critical area of vaccine safety monitoring. Divided into three progressive modules, the course begins with foundational concepts, advances through surveillance systems, and culminates with investigation and management techniques. Each module builds upon previous learning to develop your expertise in this essential public health function. It focuses on real-world applications, case studies, and exercises that enable learners to:

Learning Objectives

By the end of this course, participants will be able to:

- 1. Define and classify AEFIs accurately according to the WHO/GAVI frameworks.
- 2. Establish and optimize pharmacovigilance systems for vaccine safety.
- 3. Implement systematic causality assessment processes following WHO recommendations.
- 4. Design and implement effective AEFI monitoring systems.
- 5. Conduct thorough investigations of adverse events.
- 6. Develop appropriate response strategies for different AEFI types.
- 7. Integrate monitoring systems with broader public health frameworks.
- 8. Apply evidence-based risk mitigation strategies.
- 9. Communicate effectively with stakeholders about vaccine safety.
- 10. Contribute to maintaining public confidence in immunization programs.

Duration and Learning Hours

Module Title	Required Time
Module 1: Introduction and Foundational Concepts in AEFI	503 mins
Module 2: AEFI Surveillance and Reporting Systems	650 mins
Module 3: AEFI Investigation and Management	603 mins
Total time	29:16:00

Module Title and Short Description	Required Time
Module 1: Introduction and Foundational Concepts in AEFI	503 mins
Brief description: This module comprehensively covers Adverse Events Following Immunization (AEFI), including WHO/GAVI classification systems, frequency/severity categorization, and vaccine safety fundamentals. You'll learn about vaccine components, administration techniques, special population considerations, and emergency preparedness requirements. The content introduces essential pharmacovigilance concepts and global monitoring standards needed to identify, manage, and report AEFIs effectively within vaccination programs.	Reading: 240 mins Presentation: 150 mins Video: 38 mins Quiz: 75 mins
Module 2: AEFI Surveillance and Reporting Systems	650 mins
Brief description: This module integrates pharmacovigilance into AEFI monitoring systems, covering surveillance frameworks, reporting tools, and quality assurance. It examines the roles of regulatory authorities, pharmacovigilance centers, and immunization programs in safety monitoring. Participants will Learn about technology solutions, data management, causality assessment, and global integration. Content highlights standardized classification, resource allocation, and international collaboration for effective vaccine safety surveillance.	Reading: 330 mins Presentation: 210 mins Video: 35 mins Quiz: 75 mins
Module 3: AEFI Investigation and Management	603 mins
Brief description: Brief description: This advanced module covers systematic investigation and management of AEFI, including case identification, data collection, site inspection, stakeholder interviews, and causality assessment. Learn clinical management protocols, public health responses, and post-investigation actions. Apply investigation frameworks, classify causality, implement interventions, and develop quality improvement systems. Content emphasizes evidence-based decisions, system enhancement, and stakeholder collaboration to maintain public trust in vaccination programs.	Reading: 300 mins Presentation: 180 mins Video: 48 mins Quiz: 75 mins
Rate Your Course Experience	00:03:00
Total time	29:16:00
CPD Credit	2 3 Credit

The Credit Assessment Considers

- The concentrated nature of the course content: The AEFI curriculum delivers comprehensive coverage of adverse events following immunization through three detailed modules, each building upon foundational knowledge. The content provides extensive technical information on surveillance systems, investigation methodologies, and management protocols aligned with WHO and GAVI frameworks.
- The high-level, professional audience it targets: The course is specifically designed for healthcare professionals directly involved in immunization services, program managers, epidemiologists, and public health practitioners with existing clinical or public health backgrounds. The material assumes prior knowledge of basic vaccination principles while developing specialized expertise in AEFI monitoring and management.
- The depth of technical content: The course covers sophisticated topics, including causality assessment methodologies, pharmacovigilance principles, standardized case definitions, advanced surveillance technologies, and multifaceted response

frameworks. Each module integrates complex clinical concepts with systematic public health approaches.

- The practical application requirements: Participants must develop competency in standardized reporting tools, investigative techniques, risk assessment frameworks, and evidence-based management protocols. The course prepares professionals to implement these skills in real-world healthcare settings.
- The assumption that learners will engage in additional self-study and reflection: The curriculum design includes a substantial independent review of WHO/GAVI protocols, case assessment practice, and learning application to local contexts beyond the direct instruction time.
- Standard practices in continuing education for health professionals: The credit allocation follows established CPD frameworks for specialized clinical and public health training, particularly for concentrated courses delivering technical competencies.

This credit hour allocation aligns with typical professional development modules in vaccine safety and pharmacovigilance. It provides substantial learning experience while remaining manageable for working immunization professionals who need to integrate this specialized knowledge into their practice.

Target Audience

This course is designed for:

- Healthcare professionals directly involved in immunization service
- Public health practitioners responsible for vaccine safety monitoring
- Immunization program managers and coordinators
- National regulatory authority and pharmacovigilance staff
- Epidemiologists and public health researchers
- Health policymakers involved in immunization programs
- Medical and nursing educators

Modality

The course is delivered through our online learning platform, offering an asynchronous learning experience. Course materials include:

- **Comprehensive reading materials:** Detailed content covering key concepts, theories, and practical applications
- Interactive PowerPoint presentations: Visual summaries of main concepts with graphics and data visualization
- Engaging video presentations: Expert narration providing in-depth explanation of course content
- Knowledge-check quizzes: Regular assessments to reinforce learning and check understanding

Participants are encouraged to follow the suggested study sequence to understand the course content comprehensively.