



Life Safety Code NFPA 101 Processes

عملية رمز سلامة الحياة NFPA 101

08- 12 September 2024

Jeddah / Saudi Arabia

Introduction

This course is designed to provide participants with the knowledge and skills to apply the requirements of the Life Safety Code NFPA 101 in their work settings. The course covers the history, scope, structure, and organization of the code, as well as the key concepts and principles of life safety. The course also explains the process of occupancy classification, building construction types, means of egress, fire protection systems, and emergency planning.

Objectives

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

- Identify the purpose, scope, and structure of the Life Safety Code NFPA 101
- Explain the basic concepts and principles of life safety
- Classify occupancies according to the code criteria
- Apply the code requirements for building construction types, means of egress, fire protection systems, and emergency planning
- Evaluate the compliance of existing buildings and facilities with the code provisions
- Use the code as a reference for design, inspection, and enforcement activities

Who Should Attend?

This course is intended for professionals who are involved in the design, construction, operation, maintenance, inspection, or enforcement of buildings and facilities that are subject to the Life Safety Code NFPA 101. This includes architects, engineers, contractors, facility managers, fire protection specialists, code officials, and safety consultants.

Course Outline

Day One

Introduction to the Life Safety Code NFPA 101

- Overview of the history, scope, and organization of the code
- Key terms and definitions
- Basic concepts and principles of life safety
- Occupancy classification process and criteria
- Building construction types and features

Day Two

Means of Egress Requirements

- Components and dimensions of means of egress
- Occupant load and egress capacity calculations
- Travel distance and exit access limitations
- Exit signs and emergency lighting requirements
- Special egress features for high-rise buildings, atriums, underground buildings, etc.

Day Three

Fire Protection Systems Requirements

- General requirements for fire protection systems
- Fire alarm and detection systems
- Sprinkler systems and standpipe systems
- Smoke control systems and smoke barriers
- Fire doors and fire dampers
- Fire extinguishers and fire hoses

Day Four

Emergency Planning Requirements

- General requirements for emergency planning
- Fire safety plans and fire drills
- Emergency action plans and evacuation procedures
- Emergency preparedness plans and disaster scenarios
- Emergency power supply systems and generators

Day Five

Special Occupancy Requirements

- Specific requirements for different occupancy types, such as health care facilities, educational occupancies, assembly occupancies, residential occupancies, etc.
- Mixed occupancy provisions and separation requirements
- Existing building provisions and compliance alternatives
- Code enforcement process and inspection methods
- Case studies and examples of common code violations and solutions

Training Method

- Pre-assessment
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a 7" Tablet containing a copy of the presentation, slides and handouts
- Post-assessment

Program Support

This program is supported by interactive discussions, role-play, case studies and highlight the techniques available to the participants.

Schedule

The course agenda will be as follows:

- | | |
|---------------------|------------------|
| • Technical Session | 08.30-10.00 am |
| • Coffee Break | 10.00-10.15 am |
| • Technical Session | 10.15-12.15 noon |
| • Coffee Break | 12.15-12.45 pm |
| • Technical Session | 12.45-02.30 pm |
| • Course Ends | 02.30 pm |

Course Fees*

- **8,000 SAR**
**Including 15% VAT*

المقدمة

تم تصميم هذه الدورة لتزويد المشاركين بالمعرفة والمهارات اللازمة لتطبيق متطلبات قانون سلامة الحياة NFPA 101 في أماكن عملهم. تغطي الدورة تاريخ الكود ونطاقه وبنيته وتنظيمه، بالإضافة إلى المفاهيم والمبادئ الأساسية لسلامة الحياة. ويشرح المقرر أيضًا عملية تصنيف الإشغال، وأنواع تشييد المباني، ووسائل الخروج، وأنظمة الحماية من الحرائق، والتخطيط لحالات الطوارئ.

الاهداف

بنهاية هذه الدورة سيكون المشاركون قادرين على:

- تحديد غرض ونطاق وهيكل قانون سلامة الحياة NFPA 101
- شرح المفاهيم والمبادئ الأساسية لسلامة الحياة
- تصنيف الوظائف حسب معايير الكود
- تطبيق متطلبات الكود لأنواع تشييد المباني ووسائل الخروج وأنظمة الحماية من الحرائق والتخطيط للطوارئ
- تقييم مدى امتثال المباني والمرافق القائمة لأحكام القانون
- استخدام الكود كمرجع لأنشطة التصميم والتفتيش والتنفيذ

الحضور

هذه الدورة مخصصة للمهنيين الذين يشاركون في التصميم أو البناء أو التشغيل أو الصيانة أو التفتيش أو إنفاذ المباني والمرافق التي تخضع لقانون سلامة الحياة NFPA 101. وهذا يشمل المهندسين المعماريين والمهندسين والمقاولين ومديري المرافق وعمال الإطفاء. متخصصو الحماية ومسؤولو الكود ومستشارو السلامة.