

LECTURER'S VITAE

IAEA-ARGONNE TRAINING COURSE

Name: Hossam (Sam) Shalabi

Present Position: Senior Fire Protection Engineer

Affiliation: Canadian Nuclear Laboratories ; Formerly (Atomic Energy Canada Limited)

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Scope of Present Duties:

- CNL's off-site Fire Protection Program single point for contact. Perform semi annual code compliance inspections to CNL's 4 offsite locations.
- Provide subject matter expertise in preparing Fire Hazard Analysis (FHA), Fire Probabilistic Risk Assessment (PSA) and Deterministic Risk Assessments (Such as: Fire Modelling using CFAST & FDS).
- Provide subject matter expertise in the area of fire protection, fire system design and fire department emergency services to ensure the compliance to applicable fire protection codes and standards on fire protection equipment/system and to inform the appropriate official of contraventions of such codes and standards so that necessary corrective action may take place.
- Provide guidance based on fire protection engineering principles concerning the use of materials, appliances, systems, equipment and methods of design or construction procedures that are not specifically described by codes and standards, or that vary from the specific requirements.

Most Relevant Past Experience:

I did my Masters in Fire safety engineering and my master's project was Fire Probabilistic Risk Assessment. I also have expert knowledge & experience in:

- Conducting Fire Hazard Analysis (FHA), Fire Probabilistic Risk Assessment (PSA) and Deterministic Risk Assessments (Such as: Fire Modelling using CFAST & FDS).
- Loss prevention studies like Fire and explosion study Fire Protection Philosophy, Engineering of Fire & Gas detection with Cause & Effects, Active Passive fire protection, Escape Evacuation routes etc.

- Conversant with American and Canadian codes, Such as NFPA, NBC, NFC... etc.
- Severe Accident Management Analysis & Beyond Design Basis Analysis.
- Safety Case, FMEA, ETA, FTA, TRA... Etc.
- Process safety & reliability – Safety case (HSEIA studies), QRA, HAZID and HAZOP.
- Project Management methodologies, PMBOK and the areas of knowledge. Knowledge and experience risk management, project strategy, feasibility studies, managing technological innovations, GAANT charts, Work Breakdown Structure, project evaluation and the project management lifecycle.

Educational Background:

Doctor of Philosophy (Fire Safety Engineering PhD)

Carleton University, Canada (2018 Candidate)

Masters of Engineering Management

University of Ottawa, Canada

Masters of Fire Safety Engineering

Carleton University, Canada

Certificate in Fire Code Administration

Algonquin College, Canada

Bachelor in Applied Science (Chemical Engineering)

University of Ottawa, Canada

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