



Environment, Health and Safety

Policy and Foundation



أرامكو السعودية
Saudi Aramco



جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology



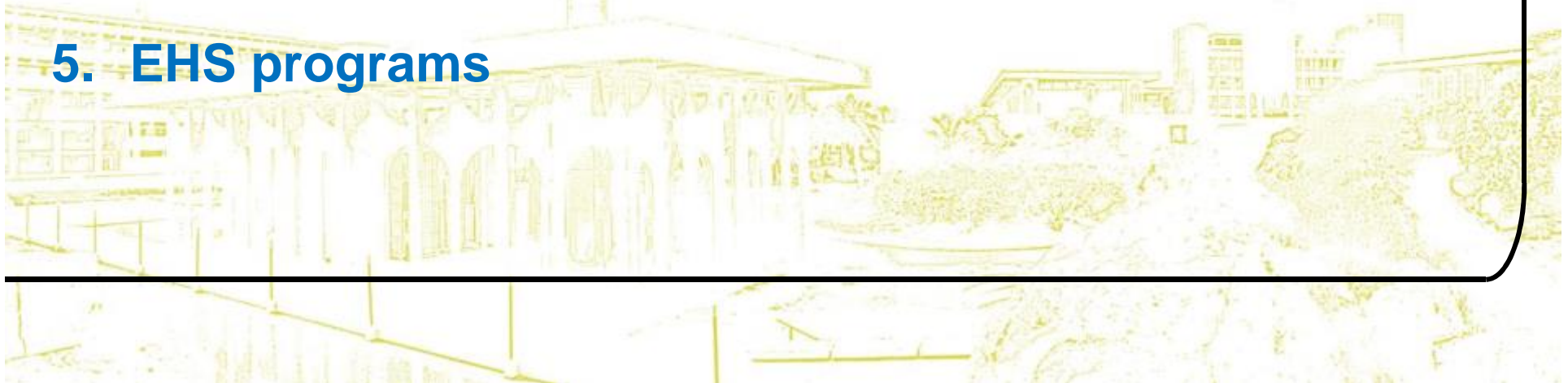
Abu Dhabi Civil Defense
General Directorate



Outline



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- 5. EHS programs**



Introduction



Vision:

To promote and maintain a healthy and safe environment by ensuring the highest level of education, awareness, training and regulatory measures, thereby achieving sustainable development and workplace health and safety standards.

Mission:

To develop a system and a culture that stimulates and support the University faculty members, staff, students, and their families to achieve excellence in Environment, Health & Safety (EHS).

Objectives



- Ensure a **safe, sustainable, healthy work, research and study environment** in KFUPM and its Community.
- Identify, assess and manage EHS risks.
 - Implement **policies, programs and procedures** that can improve workplace safety conditions in KFUPM.
 - Develop and maintain a positive and **proactive EHS culture**.
 - Develop continuously the **EHS management system**.
 - Create **awareness in KFUPM community** about the significance of EHS.

Policy



- KFUPM should comply fully with all EHS and welfare legislation and associated approved codes of practice nationally and internationally.
- KFUPM is committed to the following EHS elements:
 - Leadership and accountability
 - Community Awareness and Off-the Job Safety
 - Safe Operations
 - Contractors, Suppliers, and Others
 - Risk Assessment
 - Incident investigation
 - Emergency response
 - Continuous Improvement



EHS Responsibilities and obligations:



- To make sure the University has all the equipment to monitor **air quality**, **radiation level**, and other hazards in departments, centers, and labs. This in addition to kits, tools, and means to deal with any **accidental chemical spills**.
- Review **health and safety inspection** reports to assist in correction of identified unsafe conditions or practices.
- Evaluate **accident investigations** to determine the causes of unsafe acts or unsafe conditions as specified by guidelines and the **standard procedures**.
- Evaluate the accident and illness prevention program with a discussion of recommendations for improvement where indicated.
- Assure the implementation of **safe work processes** in the laboratory and plant through respective **EHS representative from their department**.
- **Periodic safety inspections** of all university facilities to ensure that departments are maintaining the correct level of safety standards.

EHS Programs



Fire Safety Program:

An initiative towards protecting the campus community from injuries, deaths, business interruption, and property damage resulting from fires and related perils.

-It includes inspection of Fire Extinguishers, Smoke Detectors & Heat sensors, Fire Alarm systems., Sprinkler systems & Fire hose systems, Fire hydrants, etc.

Building Safety Program:

Continuous monitoring of buildings (including offices, classrooms, laboratories, etc) for air quality, CO₂ level, etc. insuring health of living members within KFUPM.

-Includes maintaining asset integrity of the facilities by continuous improvement and maintenance if required.

EHS Programs



Water Conservation Program:

- Assessment and monitoring of **water resources** and
- regular inspection of **water quality** in housing, academic buildings and laboratories to attain healthy society.

Energy conservation Program:

- Assessment of **assets utilizing energy** and improvising the existing conditions to attain sustainable and high efficient systems.
- Power Monitoring System** was proposed in May 2012 (PR#12101940) for consumption of electricity in Academic, Faculty/Staff and Student Housing.

Load Management, Alarm systems, Maintenance Scheduling, Trend monitoring, Power Quality Analysis, etc.

EHS Programs



Construction Safety Program:

- Inspection and monitoring of contractors for safety compliances by reviewing monthly **safety construction reports** which includes near misses, accidents if any,
- Personal Protective Equipment usage, **Hazard and operability (HAZOP)** issues **Emergency action plans**, hot work (welding, cutting bars etc.) issues.

Risk Management Program:

- Identifying the risks to achieve strategic and operational objectives.
- Review of existing **risk management policies and operational risk assessments**.
- Regular **safety inspections of facility areas** by making general safety checklist with level of risk involved and possible corrective actions.

EHS Programs



Asset Integrity Program:

- Includes identifying the major assets of the university
- Determining the **Safety Critical Elements (SCE)** during installation/ maintenance of major equipment chillers, refrigeration units, water treatment plants and others.
- Review of **Standard Operating Procedures (SOP)** and **Standard Maintenance Produces (SMP)** using by contractors to longevity of assets.

Waste Disposal and Recycling Program:

- Assessment of existing procedures adopted for waste disposal.
- KFUPM-Saudi Aramco Liaison** is helping this program by providing their suggestions and guidance.

EHS Programs



Staff Development Program:

- Safety orientation of all new employees,
- training of EHS personals of **International Safety Standards**.

Reporting and Investigation:

- Includes awareness of reporting
 - near-misses,
 - any accidents,
 - occupational illness/ injuries to prevent reoccurrence,
- the **root cause of accident** and helps in communicating the lessons learned.

EHS collaborators



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