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ADB Health, Safety and Security (HSS)

Awareness Training Course ADB

It may be shared outside ADB with appropriate permission

Welcome and IntroductionsSee Workshop Agenda



Module 1 Introduction UNDERSTAND THE PURPOSE, INTENT, AND SCOPE OF THE ADB: Safeguard Policy Statement (SPS)



OBJECTIVES

Understand the SPS occupational health and safety (H&S) requirements

Appreciate potentially significant occupational health and safety risks /impacts associated with ADB projects

Occupational H&S quiz to reinforce understanding

10

OCCUPATIONAL H&S

According to the ILO, globally almost <u>two</u> <u>million workers</u> still die <u>every year</u> due to exposure to 19 occupational risk factors alone. It is estimated in Asia and the Pacific, workrelated diseases and injuries are responsible for <u>at least 1.2 million deaths</u>, and the loss of 55 million healthy years. Occupational accidents and diseases <u>are all preventable</u>.

https://www.ilo.org/asia/areas/safety-and-health-at-work/lang-en/index.htm#:~:text=It%20is%20estimated%20in%20Asia,and%20diseases%20are%20all%20preventable



https://www.youtube.com/watch?v=FI1XrdBJIUI

Leading cause of Fatal incidents in the Construction Industry

OSHA's "Fatal Four" - The leading causes of death in the construction industry

The <u>Bureau of Labor Statistics</u> reported 5,190 fatal work injuries in the U.S. in 2021. Of those deaths, nearly 20% occurred in construction, second only to transportation and materials handling. Fortunately, the <u>"Fatal Four"</u> leading causes of construction deaths – falls, stuck-by, electrocutions, and caught-in or -between -- are preventable by using these tips.

OSHA Fatal Four

Struck-By

Electrocution

Caught-In

or -Between

Falls

Use fall protection.

Falls caused 37% of construction deaths in 2021. OSHA standards require fall protection any time a construction worker is 6 feet or more above the ground.

2. Ground or double-insulate all electrical equipment.

Electrocution accounted for about 8% of construction worker deaths in 2021. Among the <u>electrocution risks</u> on construction sites are exposed wiring and wet conditions near outlets; contact with overhead power lines; energized conductors or circuit parts; poorly maintained power tools and cords; and lightning strikes. Strictly following <u>OSHA electrical standards</u> can prevent these accidents.

3. Know the greatest risk of being struck by an object on a job site.

Another 8% of construction deaths in 2021 were due to workers who were struck-by objects that were swinging, falling, or misplaced. These included falling objects due to rigging failure; loose or shifting materials; equipment malfunctions; and vehicle or equipment strikes. Be aware of all possible struck-by hazards including dropped tools and flying objects, and review these <u>tips</u> and <u>resources</u>.

4. Use strict safety precautions when surrounded by moving vehicles, unguarded heavy equipment, or cave-in hazards.

About 5% of construction worker deaths in 2021 were from employees getting caught in or between machines, devices, tools, or trenches including workers caught between moving or rotating equipment or collapsing structures or materials. Ensure <u>control measures are in place</u> and workers are trained to prevent the most common caught-in and caught-between hazards including getting pulled into <u>unguarded machinery</u>; caught between equipment and a fixed object; or trapped in a masonry wall, trench, or excavation <u>collapse</u>.

Occupational Health and Safety Policy Provisions Requirements

- The **borrower/client** will provide **workers** with a safe and healthy working environment, taking into account risks inherent to the particular sector and specific classes of hazards in the borrower's/client's work areas, including physical, chemical, biological, and radiological hazards.
- Prevent accidents, injuries, and disease arising from associated with or occurring during the course of work.

- Emergency preparedness and response arrangements at the workplace.
- Recognizes the Hierarchy of Risk
 Control avoid, minimize, manage
- Refers to internationally recognized standards such as WBG EHS.
- Document and report OHS accidents, diseases and incidents

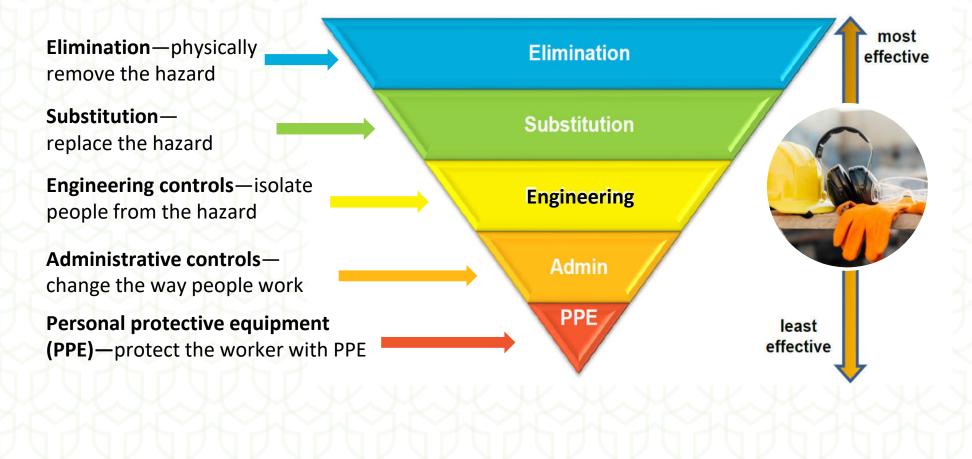
H&S Risk Assessment

		Consequence		
		Slightly Harmful	Harmful	Extremely Harmful
q	Likely	Medium Risk	High Risk	Extreme Risk
Likelihood	Unlikely	Low Risk	Medium Risk	High Risk
'n	Highly Unlikely	Negligible Risk	Low Risk	Medium Risk

A risk matrix is used during a risk assessment.

A risk matrix takes the likelihood of the risk and the consequence severity to assign a level to the risk.

H&S Management Planning Mitigation Hierarchy



H&S Management Planning – Mitigation Hierarchy

Environment Impact Assessment [EIA] Initial Environmental Assessment [IEE] Environment Management Plan [EMP] **ADB Borrower/Client** Legal agreement with ADB **Construction EMP** Borrower/ **Health and Safety Management Plans** Contractor (including Emergency Response Plan) **Requirements & Supervision** Work Site Specific Consultant/ Specific H&S Plan and Decommissioning H&S Plan engineer H&S Plan

H&S Monitoring

- Regular H&S inspections to ensure measures employed and effective
- Regular testing of H&S equipment
- Surveillance work area and workers health
- Document all training and emergency drills
- Set up a worker's GRM (not just for local community)
- Report and record all occupational accidents and diseases (fatal, non fatal, days lost)
- Report, record, and investigate all incidents or dangerous occurrences (near miss)

Lagging and Leading Health and Safety Indicators

Lagging Indicators	
Total lost work days Restricted work days Number of fatalities Injuries/illness rate Asset/property damage Vehicle mishaps Near-miss incidents Chemical releases WC trends and amount Experience modification	

Performance Target

Zero Accidents, Zero Incidents, Zero Tolerance!

TARGET ZERO

"Target Zero" is a vision for continuous safety improvement. Through "Target Zero", we strive to perform all work activities free of accidents at all times.



Worker's Accommodation

» Assess the availability of the local workshop Is there a need Need » Assess the availability of existing housing for workers' Assessment accommodation? What are the expected » Determine specific impacts of the workers' accommodation construction phase Impact impacts (positive and (including security and involuntary resettlement) Assessment negative) on the » Assess existing community infrastructures, services, and facilities communities? Understand the local business and employment context Give special attention to community health and safety issues and social cohesion » Think about the consequences of dismantling and reinstatement Which accommodation Identify and review the international, national, regional, and sectoral regulations Construction standards are needed? which address workers' accommodation » Apply mandatory provisions and use non-binding provisions as guidance Workers' Accommodation: Apply at least the minimum requirements set out in this guidance note **Processes and Standards** Design management plans covering health and safety, security, workers' » What management A Guidance Note by IFC and Management and communities' rights systems are required? » Appoint the right staff or contract the right companies » Implement management plans https://www.ebrd.com/downloads/about/s Set up complaint/grievance and conflict resolution mechanisms (for both ustainability/Workers accomodation.pdf workers and communities) » Review policies

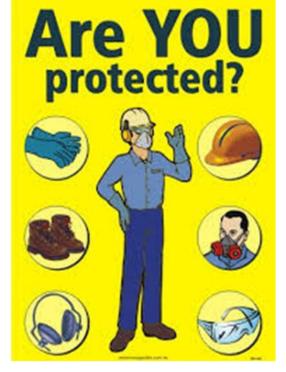
Figure 1: Workers' Accommodation, Assessment, and Management Process

INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

the EBRD

Occupational Health and Safety Quiz





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Questions



Objectives

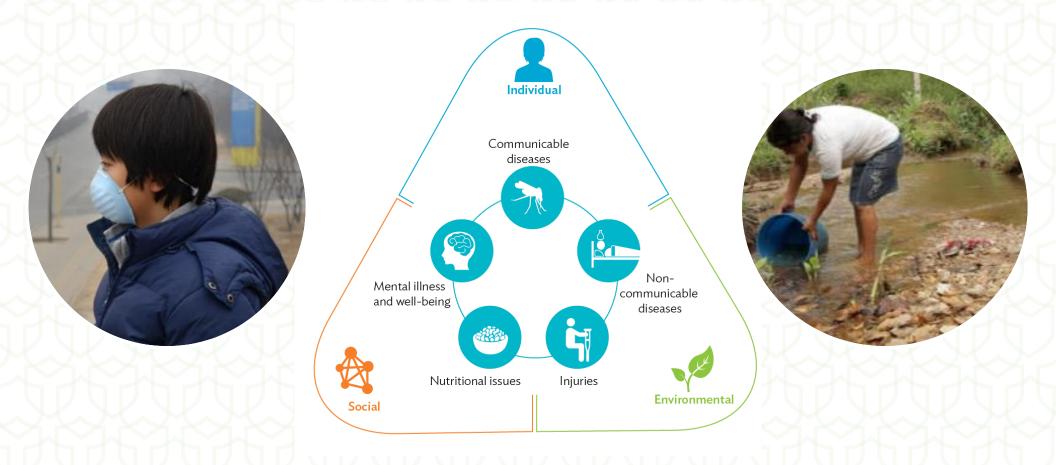
Understand the SPS community health and safety requirements

Appreciate potentially significant community health and safety impacts/risks associated with ADB projects

Community H&S quiz to reinforce theory

10

Community Risks/Impacts



SPS Requirements (community)

- Identify and assess risks/impacts on the safety of affected communities
- Establish preventative measures to address them
- Favor the prevention or avoidance of risks over minimization and reduction (management hierarchy)

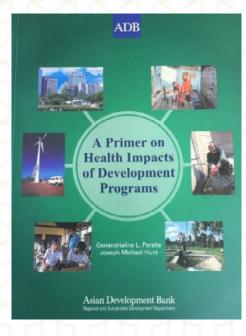
- Consider accidental and natural hazards with particular attention to publicly accessible components and where structural failure could result in injury to the community
- Avoid or minimize exacerbation of impacts caused by natural hazards as a result of project land use change

SPS Requirements (community)

- Inform affected communities of significant hazards
- Prepare accident and emergency response plans to respond to hazards, including response procedures, responsibilities, communications, training, resources required
- Disclosure appropriate information about preparedness and response activities, responsibilities and resources to affected communities
- Major structural components, in areas of high risk that threaten safety of communities, must be independently reviewed by qualified and experienced experts throughout project

Health Impact Assessment

Follows similar process to EIA and informed by it, but focused on health impacts and benefits of the development project





Health Impact Assessment

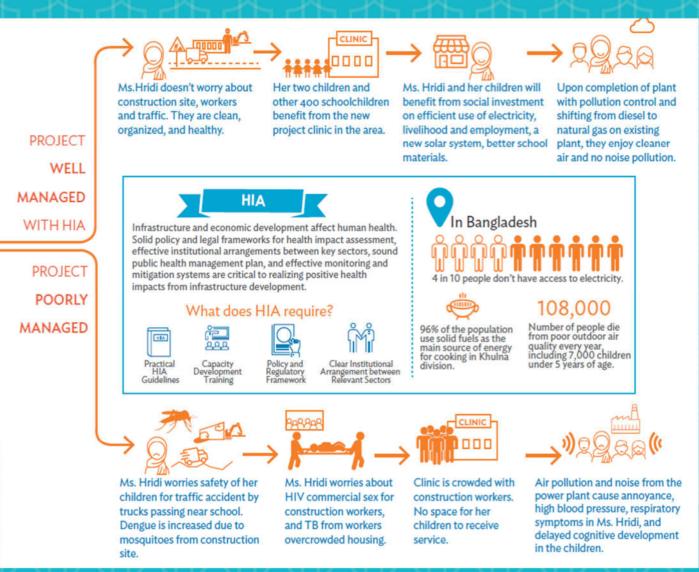
Bangladesh: Rupsha 800-Megawatt Combined Cycle Power Plant Project



Oh, we are affected by the new power plant project.

Ms. Hridi and her family live in Rupsha near the proposed site for the gas fired power plant.

In her community, power outage is frequent, health clinics in the area don't have continuous access to energy needed to refrigerate medicines, vaccines or sterilize material.



Policy Update ESS4

Requirements

- Occupational Health and Safety (OHS)
 - General and Sector Specific OHS risk assessment and management planning.
 - Health and Safety
 Management Plan –
 HSMP + ESCP.

- » Community Health and Safety (CHS)
 - General and Sector Specific CHS risk assessment and management planning.
 - Health and Safety Management Plan – **HSMP +ESCP**.

- » Common Requirements
 - Designate a person responsible to implement the HSMP.
 - Monitor and Report on Performance –
 HSMP +ESCP.
 - Worker Right to refuse to work in unsafe environments.

Policy Update ESS4

Requirements

- » Community and Workers' Risk Assessment and Management Planning,* with coverage based on screening:
 - Security risk for workers and communities.
 - Sexual abuse and harassment risks to workers and affected communities.
 - Climate change and disaster risk assessment for projects in sensitive locations
 - Life and Fire safety audits for new and refurbished facilities prior to use.

- Reporting on major incidents such as fatalities and accidents.
- Emergency preparedness and Response
- Safety of Services
- Dam Safety (New and DUC)

*Note, assessment needed only for projects based on screening of relevant issues, with scale of assessment and management needs commensurate issues and risks.

Key Takeways

- Project health and safety risk management requires strong partnership between ADB and their borrowers/clients.
- Risk Assessment is critical to a risk management planning and PPE is the last resort in the Mitigation Hierarchy.
- Safety is everyone's responsibility, but Your safety is your responsibility

Detailed Health, Safety and Security Training Developed

- » ADB Health, Safety & Security Course
- » Mental Health and Wellbeing in the Workplace
- » <u>Mental Health and Wellbeing in the Workplace</u> (for Managers)
- » Good Practice Guide for Management and Control of Asbestos: Protecting workplaces and communities from Asbestos Exposure Risks https://www.adb.org/publications/good-practicemanagement-control-asbestos
- Asbestos Awareness eLearning Course