

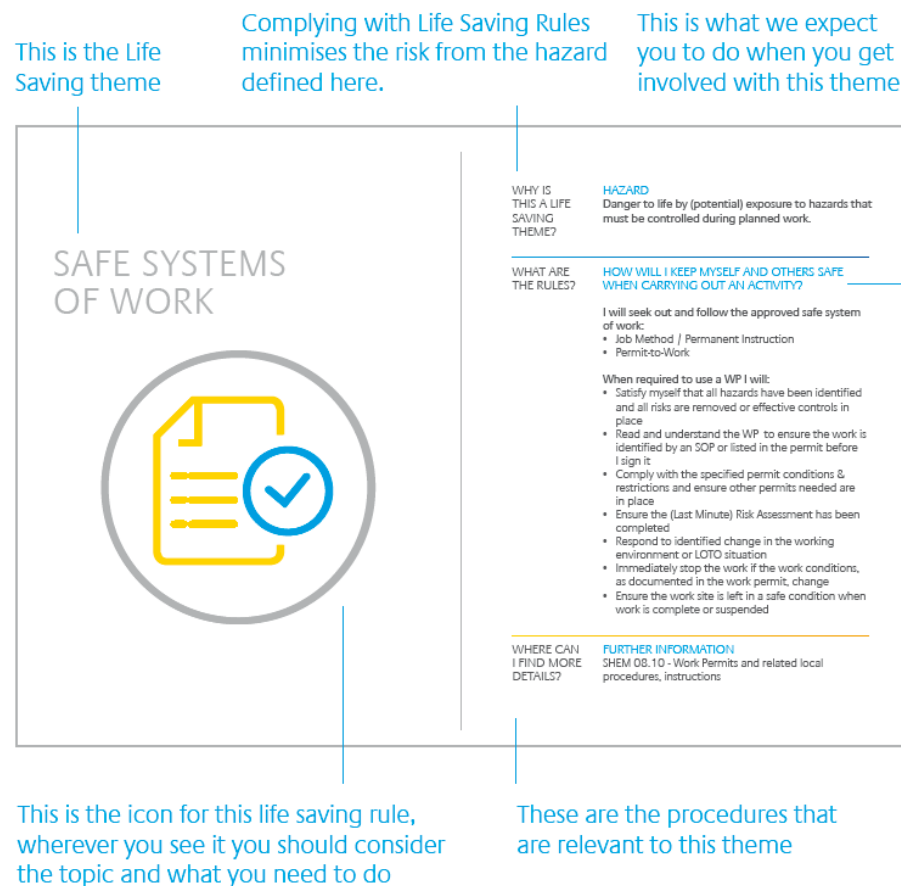
LIVE SAVING RULES

INTENT OF LIFE SAVING RULES

To prevent Serious and Fatal incidents and to support the development of a **Learning Culture** and a **Just Culture** Life Saving Rules will be implemented company wide

WHAT ARE LIVE SAVING RULES (LSR)

- Rules you must always follow when you are involved in specific type activities
- LSR are not new rules. They are already part of SHEMS
- LRS highlight the importance of full compliance to avoid serious or fatal incidents
- LSR do not replace your site procedures
- LSR also tell you where to get more detailed guidance and information
- Not to punish and to blame
- Not another campaign, but integral element of EHSS work processes



POSITIONING OF LSR

Shaping a **Learning Culture** and a **Just Culture** through **Life Saving Rules**

Learning Culture – Learning from **Mistakes**

- Identify breaches related to LSR
- Report breaches (via eSHEMS)
- Investigate underlying causes of the mistakes
- Learn

Just Culture – Stimulating **Positive Behavior** and handling **Violations**

- Expectations must be clear for all – SABIC employees, partners and contractors
- Standards are in place
- Give compliments for good behavior
- Investigate violations and apply Consequence Mgt. based on Fairness and Transparency



LSR are essential building a better EHSS Culture

TEN LIFE SAVING RULES



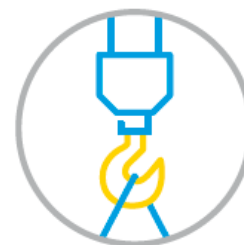
SAFE SYSTEMS
OF WORK



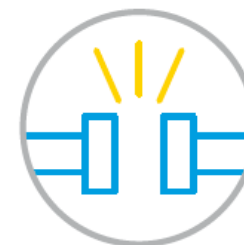
CONFINED
SPACE ENTRY



SAFETY AT
HEIGHT



LIFTING
OPERATIONS



LINE
BREAKS



ENERGY
ISOLATIONS



CREATED
OPENINGS



DISABLING
SAFETY SYSTEMS



VEHICLE
SAFETY



MANAGEMENT
OF CHANGE

LSR selected on Incident Analysis and Industry Benchmark

SAFE SYSTEMS OF WORK



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN CARRYING OUT AN ACTIVITY?

I will seek out and follow the approved safe system of work:

- Job Method / Permanent Instruction
- Permit-to-Work

When required to use a WP I will:

- Satisfy myself that all hazards have been identified and all risks are removed or effective controls in place
- Read and understand the WP to ensure the work is identified by an SOP or listed in the permit before I sign it
- Comply with the specified permit conditions & restrictions and ensure other permits needed are in place
- Ensure the (Last Minute) Risk Assessment has been completed
- Respond to identified change in the working environment or LOTO situation
- Immediately stop the work if the work conditions, as documented in the work permit, change
- Ensure the work site is left in a safe condition when work is complete or suspended

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life by (potential) exposure to hazards that must be controlled during planned work.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.10 - Work Permits and related local procedures, instructions

CONFINED SPACE ENTRY



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
DURING A CONFINED SPACE ENTRY?

Before entering a confined space I will:

- Confirm a valid Work Permit with Risk Assessment has been completed and verify suitable air test results and ventilation are in place
- Understand the hazards of my activity in context of the entry and ensure there is a plan to control the risk
- Read and understand the rescue plan
- Ensure that myself and all affected workers are trained in confined space entry and understand how to use required PPE and retrieval equipment.
- Fit my personal lock to the lock box controlling the LOTO isolations.
- Confirm with the trained Stand-by attendant that it is safe for me to enter and confirm that I will be quickly notified when there are changes to the conditions

On entering a confined space I will:

- Obey all instructions given by the Stand-by attendant
- Work within the scope of the Work Permit

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life by exposure to a hazardous atmosphere in a confined space.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.10 - Work Permits and related local procedures and work instructions

WORKING AT HEIGHT



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN WORKING AT HEIGHT?

To prevent me or objects falling from height I will:

- Work within a suitably guarded platform or use approved fall arrest equipment
- Ensure that I am trained in the use of fall protection equipment and that I inspect it prior to use
- Always use three-point contact to climb or descend a ladder to and from an elevated work space
- Minimise and secure any tools and equipment away from edges
- Avoid standing on pipes unless I have an approved risk assessment

To minimise risks from falling objects I will:

- Avoid multi-level working or install additional protection

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

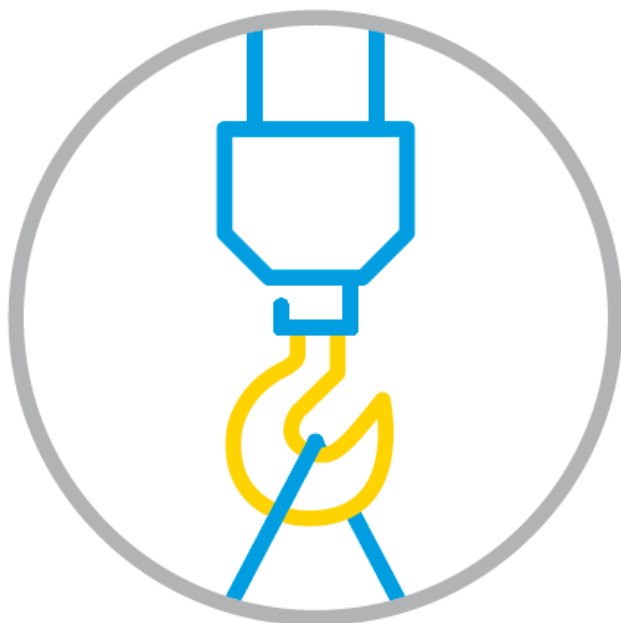
Danger to life from people or objects falling from height.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.09 - Working on Heights and related local procedures, work instructions

LIFTING OPERATIONS



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
DURING LIFTING OPERATIONS?

When carrying out a lifting activity, I will:

- Only do so if I have been adequately trained
- and authorised
- Only use registered lifting equipment and confirm the inspection date is current
- Barrier and sign the area to prevent people from walking into the drop zone

When a lifting activity is ongoing I will:

- Never cross erected barriers unless authorised & safe to do so
- Never walk under a suspended load

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life from objects falling from height or damaging plant equipment.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.06 - Lifting Equipment and related local procedures, work instructions
SHEM 08.09 - Working on Heights and related local procedures, work instructions

ENERGY ISOLATIONS



WHAT ARE
THE RULES?

HOW WILL I ENSURE I AM SAFE FROM ENERGY
SOURCES WHEN CARRYING OUT MAINTENANCE
ACTIVITIES?

Prior to conducting work on equipment I will:

- Ensure an appropriate energy isolation procedure is in place (Lock-Out, Tag-Out, Try-Out)
- Put my personal lock on the lock box or lock out device as specified in the work instruction
- Follow approved methods to verify that the energy sources have been isolated
- Communicate to all parties involved

I will:

- Never cut LOTO locks or devices or remove tags without being authorized

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life from exposure to mechanical, electrical, radiation or other forms of energy.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.10 - Work Permits and related local procedures, instructions

CREATED OPENINGS



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF OR OTHERS SAFE
WHEN AN OPENING IS CREATED?

When planning to create an opening I will:

- Complete the dedicated risk assessment
- Only do so with the authority of a dedicated Work Permit

When an opening is being created I will:

- Ensure myself and others wear appropriate fall arrest equipment
- Identify and protect the opening with both signage and hard barriers
- Ensure the opening is closed and secured as soon as possible using clips & clamps

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life for people falling from height through openings on working surfaces.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 08.09 - Working on Heights and related local procedures, work instructions
SHEM 08.10 - Work Permits and related local procedures, work instructions

If I identify an unprotected opening or unsafe platform I will:

- Take immediate action to prevent injury to others

DISABLING SAFETY SYSTEMS



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN DISABLING A SAFETY SYSTEM?

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life when disabled safety systems (EHSS critical) fail to provide the protection against the hazards for which they were designed.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 02.00 - SAFER and related local procedures, work instructions
SHEM 07.08 - Control of Bypassing of EHSS critical Instruments, Devices & relief devices and related local procedures

When disabling a safety system I will:

- Only do so if the appropriate risk assessment (MOC/SAFER) has been completed and I have written authorisation
- Ensure appropriate records are made
- Consider the need for temporary MOC
- Communicate the change to all affected workers
- Stop and report any concerns / observations with regard to safety systems

When working I will:

- Avoid disabling safety systems as much as possible
- Seek clarification if concerned my work could affect a safety system
- Never knowingly tamper with or compromise safety systems
- Communicate the type of change to all affected workers

VEHICLE SAFETY



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN USING A VEHICLE

Prior to undertaking travels on or off site I will:

- Ensure I am fit, authorised, and competent to drive a vehicle
- Ensure the vehicle is safe to use and fit for purpose
- Ensure that bringing the vehicle onto the plant area is essential and I have been given authorisation
- Comply with the related rules and regulations and local Highway Code
- Observe rules for Banksman / Flagman when reversing
- Secure the vehicle when not in use
- Park in an appropriate manner, consistent with site rules
- Always use the pedestrian pathways and crossovers when walking outside

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

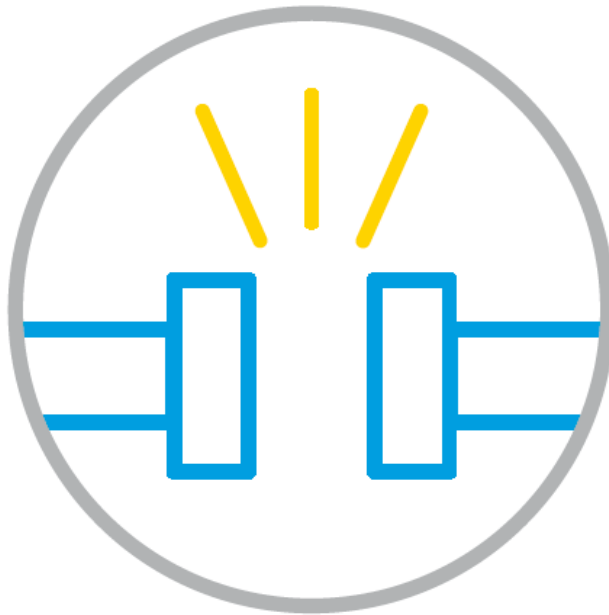
Danger to life from vehicles coming into contact with pedestrians, other vehicles, plant, installation or the presence of an ignition source.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 15.01 - Road Transportation
SHEM 08.01 - General EHSS rules

LINE BREAKS



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN BREAKING INTO THE PRESSURE
ENVELOPE?

Ahead of breaking into any line or other
process system I will:

- Comply with the appropriate safe system of work
- Barricade the work area and provide containment for potential released material in advance of the line break
- Confirm the identity of the correct line
- Confirm standard isolations are in place: LOTO
- Follow approved methods to confirm the system is free of process material and/or trapped pressure
- Follow agreed risk assessment if not able to prove empty
- Follow agreed communications with Operations before cutting a line
- Wear the specified PPE for the task and break flanges away from me to avoid line of fire

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life from release of hazardous chemicals or trapped pressure.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 07.00 - Series mechanical Integrity
SHEM 08.08 - Personal Protective Equipment
SHEM 08.10 - Work Permits and related local procedures and work instructions

MANAGEMENT OF CHANGE



WHAT ARE
THE RULES?

HOW WILL I KEEP MYSELF AND OTHERS SAFE
WHEN MAKING A CHANGE TO THE EQUIPMENT,
PROCESS, INSTALLATION OR STAFFING?

**Before I will make a repair, adjustment or
modification, I will:**

- Ensure the adjustments are with-in the control limits
- Verify whether it is a “like-for-like” repair or modification
- If it is a modification ensure the MOC work process is followed and approvals are given
- Make sure a MOC is approved for execution and is signed off by the MOC team review
- After the modification or repair a PSSR is executed to ensure a safe start-up
- Use updated procedures and drawings following the change
- Ensure training is completed on changes, processes prior to start-up
- Ensure emergency changes are reviewed and documented

WHY IS
THIS A LIFE
SAVING
THEME?

HAZARD

Danger to life due to changes or modifications to the equipment, process, installation or staffing.

WHERE CAN
I FIND MORE
DETAILS?

FURTHER INFORMATION

SHEM 06.00 - Pre-Start-up SHE review
SHEM 09.00 - Management of Change and related local procedures, instructions

WHAT IS EXPECTED OF YOU

- Know the LSR
- Be alert when you are involved in activities related to LSR
- If anything is not clear or you have doubts the work can be done safely: STOP the work and ask for assistance and guidance from the Supervisor
- Report mistakes and learn

INTENT OF LIFE SAVING RULES

These basic rules relate to the highest risk activities we undertake on our operations. People have died and been disabled in our industry from not following them. If there is a reason you are unable to comply with these rules you must bring it to the attention of a SABIC supervisor to help you resolve the problem.

These Life Saving Rules are complementary to the site's procedures and processes and are issued as reminders of the hazards and risks when performing these tasks.

Before performing a safety critical task utilize the applicable permits as an opportunity to fully understand the hazards, determine safe work practices and communicate. Then safely perform the activity

Ahmed Al-Shaikh EVP Manufacturing

CEO MESSAGE



CEO OFFICE

مكتب الرئيس التنفيذي

Dear colleagues,

Today, we are launching **SABIC Life-Saving Rules**, as an important step to further improve our EHSS culture and hence EHSS performance. Although we have good EHSS systems and processes in place in SABIC, our experience and investigations show that human factors play a key role in the majority of our EHSS incidents and near misses, which deserve greater attention.



الإخوة الزملاء والأخوات الزميلات

السلام عليكم ورحمة الله وبركاته،

اليوم، نطلق (سابك) **قواعد المحافظة على الأرواح**، باعتبارها خطوة مهمة نحو تعزيز ثقافتنا المتعلقة بالبيئة والصحة والسلامة والأمن، وبالتالي تحسين أدائنا في هذا المجال، ومع أن (سابك) تطبق أنظمة وإجراءات فاعلة في هذا المجال، إلا أن تجاربنا ودراساتنا تشير إلى أن العامل البشري يشكل عاملاً رئيساً في غالبية حوادث السلامة، أو الكوارث التي تحدث أن تقع، لذا فالأمر يستحق منا مزيداً من الاهتمام والتركيز على هذا الجانب.

It is vital that we continue improving our EHSS performance, given its importance to the sustainability of our business. EHSS standards are an important part of this, but they must be supported by the right behaviors. I am convinced that the right behaviors go hand in hand with positive EHSS results, and these positive results ensure what matters most – to keep us all safe.

The ten Life-Saving Rules we are launching relate to the highest risk activities we undertake. These rules are not new, but our experience in SABIC, and experience of other companies, make it clear that people have died or have been severely injured when these rules are breached.

The Life-Saving Rules are applicable to all SABIC employees and contractor personnel alike. Please embrace these rules with me. If you are unable to comply with any of the rules, stop work and address your concern with your supervisor, so that the issue can be resolved in a safe manner.

At SABIC we take our EHSS responsibilities very seriously and we have a clear goal of zero incidents. Each and every day, I count on your commitment and behavior to follow the Life-Saving Rules.

Thank you for helping raise our EHSS standards in everything we do.

Best regards,

Yousef A. Al-Benyani
Vice Chairman & CEO

كما تتعامل أهمية مواصلة تحسين أدائنا على مستوى البيئة والصحة والسلامة والأمن لتحقيق الاستدامة لأعمالنا، فمما لا شك فيه أن معايير البيئة والصحة والسلامة والأمن تشكل عنصراً أساسياً لبلوغ النتائج المرجوة، ما يستلزم دعم هذه المعايير بممارسات صحيحة، وأنا على ثقة بأن الممارسات الصحيحة تسير جنباً إلى جنب مع النتائج الإيجابية في مجال السلامة، وهذه النتائج الإيجابية تضمن تحقيق أهم جانب يهمنا، وهو الحفاظ على سلامة الجميع.

تتعلق القواعد العشر التي نطلقها اليوم – على وجه الخصوص – بالأنشطة ذات المخاطر العالية، وهذه القواعد ليست جديدة، ولكننا اعتمدنا على خبرتنا في (سابك)، وخبرات الشركات الأخرى، وجدنا أن حوادث الوفاة والإصابات البالغة نجمت عن خرق هذه القواعد.

تسري قواعد المحافظة على الأرواح على جميع موظفي (سابك)، وموظفي المقاولين على حد سواء، لذا يرجى من الجميع تبني هذه القواعد، وإذا حدث أن صعب عليكم الالتزام بأي من هذه القواعد، عليكم التوقف عن العمل، والتوجه مباشرة إلى مشرفكم لمطرح ما لديكم من مخاوف، حتى يسنى حل المشكلة بطريقة آمنة.

إننا في (سابك) نولي مسؤوليات البيئة والصحة والسلامة والأمن أقصى درجات العناية والاهتمام، ولدينا هدف واضح يتمثل في الوصول إلى مستوى (لا حوادث)، ونسعى إلى تحقيق ذلك بإذن الله، وأنا أعول دائماً على التزامكم، وممارساتكم الحريصة على اتباع قواعد المحافظة على الأرواح.

أشكر لكم تعاونكم لتعزيز أداء الشركة عاماً، وفي مجال البيئة والصحة والسلامة والأمن على وجه الخصوص.

وتقبلوا أطيب التحيات.

يوسف بن عبد الله البنيان
نائب رئيس مجلس الإدارة الرئيس التنفيذي

THANK YOU