WELCOME

PIPELINE SAFETY CONFERENCE

DTE CONSTRUCTION SAFETY

WEDNESDAY, OCTOBER 9, 2019

MT. PLEASANT, MI

INTRODUCTIONS

THANK YOU TO OUR HOSTS

YOUR PRESENTERS

THE AUDIENCE

PURPOSE and OBJECTIVE

- AN OPEN DISCUSSION OF CONSTRUCTION SAFETY PRACTICES IN THE PIPELINE INDUSTRY -KNOWLEDGE SHARING AMONGST INDUSTRY PROFESSIONALS
- ENHANCE THE KNOWLEDGE AND ABILITIES OF ATTENDEES
- IDENTIFYING THE LIFE CRITICAL ACTIVITIES
- IDENTIFYING HAZARDS
- ACTING ON THE ACTIVITIES AND HAZARDS IDENTIFIED

SUCCESS OF THIS CONFERENCE PRESENTATION

LEVEL OF PARTICIPANT ENGAGEMENT
- WITH INSTRUCTORS
- WITH EACH OTHER

GROUND RULES

KNOWLEDGE TRANSFER

APPLICATION OF LEARNINGS IN THE FIELD
- SAFETY
- COMPLIANCE
- COMPANY SUCCESS

SAFETY

VENUE BASICS

OBJECTIVE

THE CHALLENGE

OUR PRODUCT, NATURAL GAS

LIFE CRITICAL SKILLS

MORE LIFE CRITICAL SKILLS

VENUE BASICS – COMFORT INN & SUITES MT. PLEASANT, MI

- CALL 911
- SIGN THE ROSTER EACH DAY
- MARSHALLING AREA IN THE EVENT OF FIRE EMERGENCY
- SHELTER
- AED

SAFETY OBJECTIVE

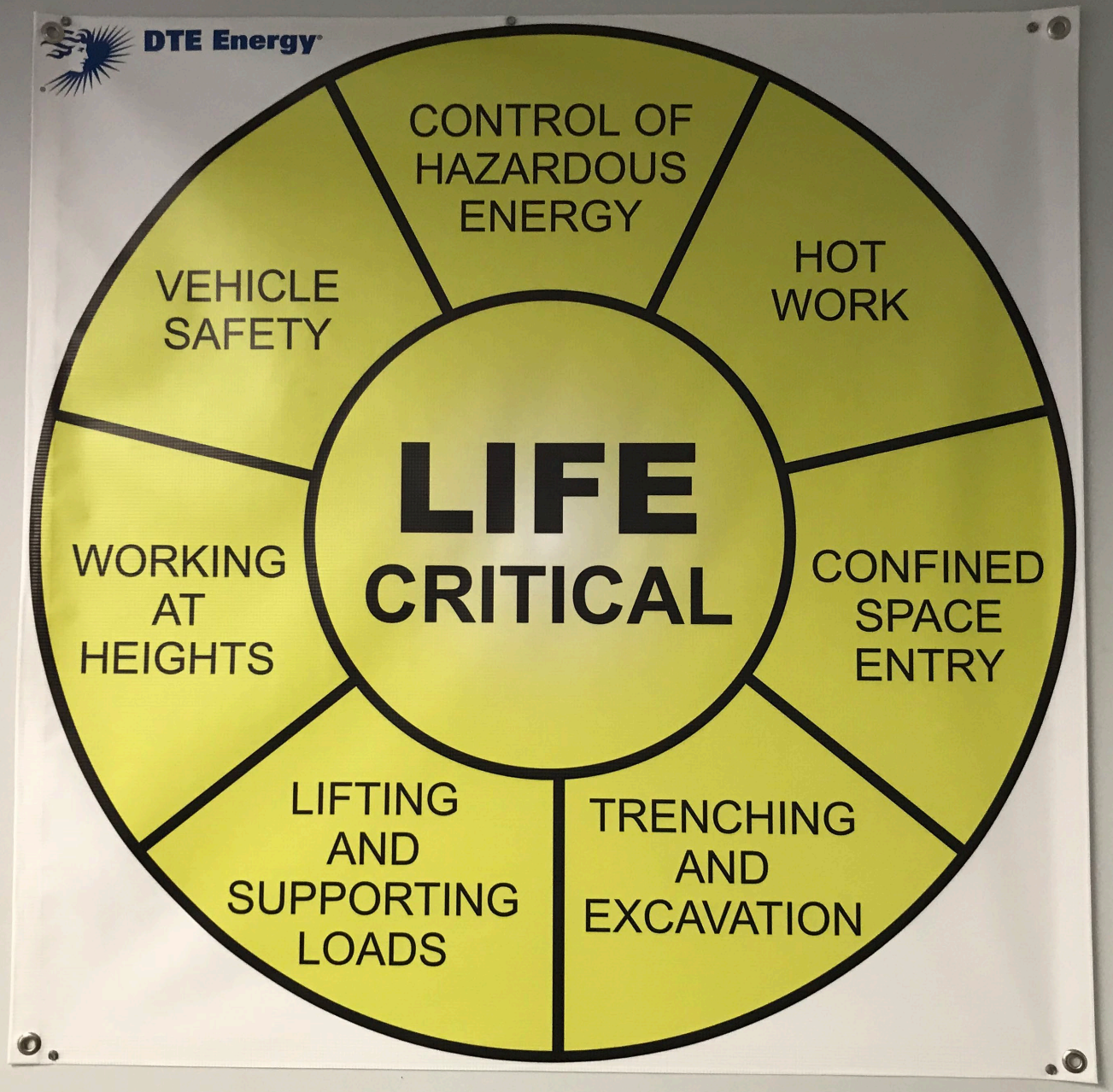
- THINK ABOUT SAFETY COMPREHENSIVELY
- KNOW THE LIFE CRITICAL STANDARDS (LCS)
- DESIGN with LIFE CRITICAL ACTIVITES IN MIND
  - CHARACTERISTICS and RISKS
  - MITIGATING ACTIONS
- AUDIT SAFETY PERFORMANCE

THE CHALLENGE

- WHAT ARE YOU GOING TO DO DIFFERENTLY TO ENHANCE YOUR APPROACH TO SAFETY THIS YEAR? (AND BEYOND)
- THINK ABOUT IT
- COMMIT TO IT
- DEMONSTRATE IT …..LEAD BY EXAMPLE

DTE'S SEVEN (7) LIFE CRITICAL ACTIVITIES

- TITLE 29 CODE of FEDERAL REGULATIONS (CFR) PART 1926 SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION
- DEPARTMENT OF LABOR
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- TITLE 29 CFR PART 1910 GENERAL INDUSTRY



THREE (3) MORE LIFE CRITICAL ACTIVITIES: NUMBER 8, IN-SERVICE APPLICATIONS

- IN-SERVICE APPLICATIONS
  - WELDING
  - STOPPLE OPERATIONS
  - PIGGING
  - HEAVY EQUIPMENT OPERATION
  - WELL
- COMPOUNDED RISK
- ACUTE IMPACT

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THREE (3) MORE LIFE CRITICAL ACTIVITIES : NUMBER 9, HEAVY EQUIPMENT OPERATION

- ALL TYPES - HEAVY EQUIPMENT OPERATION
- SINGLE AND COMPOUNDED RISK
- ACUTE IMPACT

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THREE (3) MORE LIFE CRITICAL ACTIVITIES: NUMBER 10, HAZARDOUS ENVIRONMENT

- HAZARDS
  - ASBESTOS
  - PCB
  - NORMS
  - BENZENE
  - MERCURY
  - LEAD
- SINGLE AND COMPOUNDED RISK
- CHRONIC IMPACT

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DESIGN WITH LIFE CRITICAL STANDARDS IN MIND

- WHICH OF THE 10 IDENTIFIED LIFE CRITICAL ACTIVITIES ARE IN PLAY DURING THE CONSTRUCTION WORK
- HOW DO I MINIMIZE RISK?
- HOW DO I ELIMINATE HAZARD?
- WHAT ENGINEERING CONTROLS CAN I EMPLOY?
- WHAT ADMINISTRATIVE CONTROLS CAN I EMPLOY&
- WHAT OTHER OPTIONS AND RESOURCES DO I HAVE?
- WHAT CONTINGENCY PLANS CAN I EMPLOY?
- AM I PLANNING FOR SUCCESS?
- AM I CONSIDERING FAILURE (HUMAN PERFORMANCE, PROCEDURAL, FATIGUE OR MECHANICAL) AND WHAT HAVE I PLANNED IN REACTION?

PRE-JOB BRIEFINGS

DTE Energy

DTE GAS PRE/POST-JOB BRIEF

Rev. 00

Section 1 - Work Area and Contact

Location:	**Date:**
Supervisor Name:	**Supervisor Name:**
Scope of work:	**STAR:** STOP.THINK.ACT.REVIEW **Peer Checking**- 200% accountable **Question Techn ique:** What are the critical phases? How can I make mistakes? What could happen to me, my co-worker, customer?

Section 2 - Work Crew Identification

Names of Personnel	
1)	4)
2)	5)
3)	6)

Section 3 - Hazards & Mitigation

Hazards	Measures to Mitigate Hazards

Section 4 - PPE Requirements

☐	Hard Hat	☐	Hi-visibility
☐	Safety Glasses	☐	Chemical resistant coverall
☐	Face Shield	☐	FR Clothing
☐	Goggles	☐	Hearing Protection
☐	Gloves (material handling)	☐	Other
☐	Gloves (cut-resistant)	☐	Other
☐	Gloves (chemical Resistant)	☐	Other

Section 5 - Post-Task Review

	Unforeseen Hazards Missing PPE Correct Tools Safety Issues/concerns

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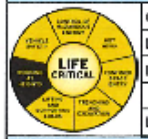
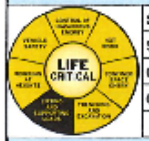
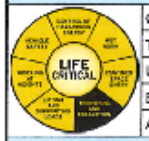
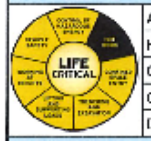
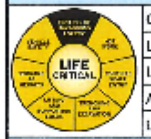
PRE-JOB BRIEFINGS

Section 6 - Life Critical	
WORKING AT HEIGHTS	
	
Guardrails and toeboards for fixed platforms >4ft	Scaffold inspected prior to use
Ladder inspection	Scaffold designed for intended use (load capacity, lifting, access)
Ladder secured to prevent slipping	Aerial lift inspection
Ladders positioned three feet above landing	Personal fall arrest system inspected and used in buckets
Ladder angled at 4:1 ratio	Appropriate anchor points defined
LIFTING AND SUPPORTING LOADS	
	
Straps / Wires inspected	
Straps load capacity appropriate for the load	
Outriggers out	
Clearance from overhead lines	
TRENCHING AND EXCAVATION	
	
Qualified Person at the jobsite	Trenches/excavations five feet or greater protected
Trench/excavation inspected by qualified worker	Personnel at a safe distance from suspended loads
Underground utilities been properly identified	Vehicles proximity to trench edge
Excavated spoils at least two feet from edge	Sloping and benching
Atmospheric testing for hazardous atmosphere	Trench box
CONFINED SPACE ENTRY	
	
Confined Space Permit filled out correctly?	Proper Guarding
Proper Guarding	Calibration up-to-date gas direct reading device
Confined Space classification	Daily bump/functional test bear performed on gas meter
Potential or actual hazards been identified	Ventilation
Rescue plan been developed and documented	Attendant identified
HOT WORK	
	
All potential or actual hazards identified	Combustible Dust
Hot Work permit been posted at point of activity	Fire Watch
Combustibles with in 35 ft	Fire blankets available
Combustible vapor eliminated or < 10%LEL	
Dedicated portable fire extinguisher	
CONTROL OF HAZARDOUS ENERGY	
	
Correct locks used	All forms of hazardous energy identified
Lockbox available and used	Hazardous energy isolation points identified
Locks are identifiable	Contractors informed of site specific lockout procedures
Authorized employees sign off	Has a zero energy state been validated (venting, blocking, etc)
Lockout instructions defined and available	
VEHICLE SAFETY	
	
Common distractions	Safe vehicle entry and exit (three points of contact)
Safety belts	Walk around prior to leaving (people clear, potholes, glass)
Pre use inspection	
Defensive driving	
Terrain	
Section 7 - Team Signatures	

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PRE-JOB BRIEFINGS

TSO PJB App

- The new electronic PJB is available through PowerApps and can be accessed on any smart phone, tablet, MDT, or Computer
- Employees login to PowerApps using their DTE email

How to access PJB App

- **Smart Phone/Tablet**
  - Download PowerApps App

  - Go to "All Apps" and scroll through to find "Pre Job Brief App"

- **MDT**
  - Pre Job Brief icon on desktop

- **Computer**
  - "Pre Job Brief" link on TSO Safety SharePoint Site

Using the PJB App

- Select TSO then fill in required information
  - Find additional participants easier by searching by last name
  - Location should be the specific location where work is being done
- Comments section is optional- can be used to note the specific task, specific hazards, hazard mitigations, or other information about the job

AUDIT PERFORMANCE AGAINST PLAN

- DAILY
- WEEKLY
- MONTHLY
- PER PROJECT
- LEADING ACTIVITIES
  - PRE-JOB BRIEFINGS
  - SAFETY MEETINGS
  - SITE REVIEWS
- LAGGING ACTIVITIES and INDICATORS
  - AUDITS
  - NEAR MISSES
  - INJURIES AND ACCIDENTS
- NSC SURVEY – ARE YOU DRIVING A SAFETY CULTURE?
  - RESULTS
  - ACTION PLANS

QUESTIONS?

YOUR TAKE-AWAYS

- KNOW the TEN (10) LIFE CRITICAL ACTIVITIES for PIPELINE CONSTRUCTION
- DESIGN YOUR WORK with the TEN ACTIVITIES IN MIND
- KNOW HOW TO REDUCE THE RISK OF EACH
- COME OUT OF THE SHADOWS and LEAD BY EXAMPLE
- CREATE A HIGH PERFORMING SAFETY CULTURE
- HAVE A SAFETY PLAN
  - USE IT
  - AUDIT IT
  - ADJUST IT

THANK YOU