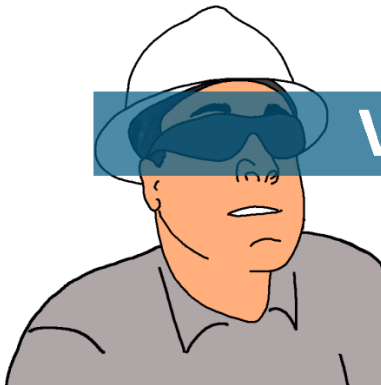


# Drilling Rig Publications Catalog



Visual Learning Series

See what you have been missing in safety training

Continuing Education / Intelligently Illustrated



2020 Version

## Safety Training Workbooks Catalog



Employees who are busy with their work need every advantage in workplace training, and so does the employer. Put your employees on the fast-track to understanding workplace hazards and safety mitigation with our workbooks.

Well-organized, logic based training material that is not just a rehashed mix of regulations. We utilized two internal philosophies in creating them: 1) Illustrate (hand drawn) all parts, even the hazards (yet without blood and gore) and 2) Say it in as few words as possible. This process makes learning through our workbooks more efficient.

### **How We Built**

We started seven years earlier, took 20,000 pictures, wrote hundreds of pages of notes, studied regulations and collected over 250 safety alerts. We then sat down and hand drew about nine thousand illustrations and created these workbooks. Afterward we submitted them to 30 different industry and safety professionals for review, including former OSHA officers. The result(s) is the most robust and efficient collection of training materials ever assembled. This is safety training re-invented.

### **Why Illustrate and balance issues?**

We built on a well-established psychological principle that people think in pictures. The results are products that company safety representatives have described to us as “culture changers”. These materials are attractive to employees and compel employees to work through them akin to continuing education courses which, breeds knowledge retention. Those employees become versed in workplace hazards and safety responses / safeguards because they work for it.

### **Portable to the worksite**

We build workbooks because they are portable to the worksite – extending safety training (and contemplation) long beyond classroom time constraints. This is far more powerful than employees attending a safety lecture.

### **Continuing Education**










You can provide our workbooks to employees to complete on their own, in a continuing education process. These workbooks are not easy to complete but employees will learn from them. Most employees are up for this kind of challenge.



## Benefits of VLS Workbooks



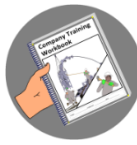


*You've not seen safety and training like this!*

Graphic Safety company has created a complete series of Visual Learning Workbooks to help you accomplish your work and safety training needs. Establishing common knowledge is basic to encouraging common sense.

 <p>Engineered to teach work steps and hazards together.</p>	 <p>Illustrations are compelling for visual learners.</p>	 <p>Safety Alerts integrated to provide authenticity. Over 230 Safety Alerts imbedded across the series</p>
 <p>Safety steps in the work process illustrated. Chronologically organized.</p>	 <p>Lockout/Tagout shown at key points.</p>	 <p>Format teaches the foundation for the JSA process.</p>
 <p>Dropped objects shown at key points.</p>	 <p>STOPs shown at key points.</p>	 <p>Self-paced, self-guided workbooks can be incorporated at a low cost.</p>

### Blending Training Methodologies to Boost Employee Comprehension

Graphic Safety, LLC designs work & safety training workbooks to maximize student/employee learning because we know your company time is valuable. Get the most out of your training dollars by utilizing these workbooks!

 <p>1. Intelligently illustrated for visual learning which is processed much faster by the brain than words. Illustration greatly increases the comprehensibility of the training. Also contains inherent linguistic appeal for any language spoken.</p>	 <p>We don't illustrate blood and gore because it doesn't promote good mental health for employees. However, we do illustrate pain, shock and surprise so employees can grasp the gravity of the hazards.</p> <p>(we do show only two minor examples of blood in scenes where warranted).</p>
 <p>2. Portability means that each employee has their own copy and can carry and use them on the worksite or at home. This greatly expands the learning potential beyond time-constraints of classroom lectures.</p>	
 <p>3. With challenge questions on most pages of the workbook, student engagement is required, which greatly reduces student boredom vs sitting through a PowerPoint lecture. This provides maximum knowledge retention.</p>	
 <p>4. When we illustrate workplace training &amp; safety issues we collaborate and determine "key points". This is outlined in the famous 'Training Within Industry' (TWI) Manual. This is the manual (and the method) that made Japanese products so successful. We weigh the value of each illustration carefully because it is a lot of work. But the harder we work, the greater the probability of comprehension on the part of student/employees. Designing for the learner means people "come up to speed" much quicker. This is a plan for success!</p>	

Safety should not be segregated as abstract notions but should be engineered/integrated with the work. Our workbooks are portable, learnable and teachable. When your employees work through our workbooks, they will know safety!



# How to Use Graphic Safety Training Workbooks

## Classroom

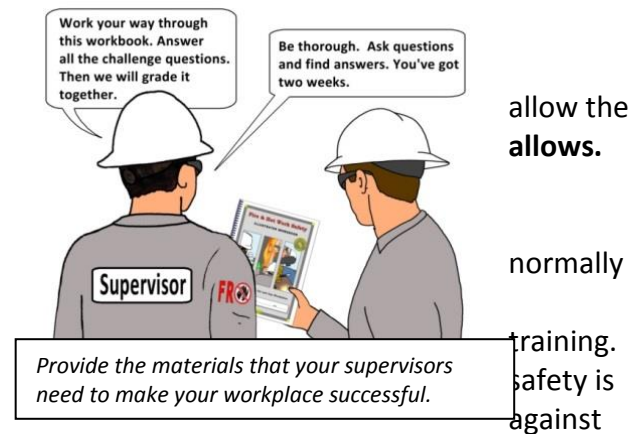


The workbooks are perfectly usable in the classroom. PowerPoints can be built as guides. The main point of a workbook is to **engage the student in work to gain education on the subject matter**. The hands-on of writing does just that while deepening understanding and provoking memory of the subject. This is the same method used in colleges.

Practice test questions and student written answers throughout remind employees about the subject after the workbooks have been returned to the employee. The workbook remains as a reference, long after the classroom time has passed. To that end, Supervisors/Instructors should read each of the employee answers and coach in correcting errors until the student/employee has the correct answer.

## Field Use

Another way to utilize the safety training workbooks is to students/employees to **complete them as their spare time**. This removes the time-constraint of classroom meetings. Supervisors and other employees can coach answers naturally. Supervisor re-enforcement of training occurs in every workplace. However, the workbook provides structured guidance. This method encourages hands-on Value increases because instruction is more thorough. More found in multiplying instructors. Answers should be checked the Instructor Version of the workbook for accuracy.



Completed tests (back pages) are designed to be torn out archived. Student/employee names, dates and scores be recorded in your training log.

Complete the certificate and return it to the student/employee along with the workbook. Student/employees keep the workbooks for further reference.

and should

**Workbooks are the highest quality training method for student/employees, and the most efficient training method for supervisors/instructors.**





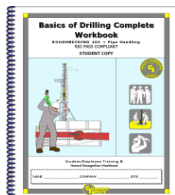
## Training for the Drilling Industry – Synopsis page

Order sets online at [www.GraphicSafety.com](http://www.GraphicSafety.com)



### Metal Fabrication Shop Safety Training Workbook

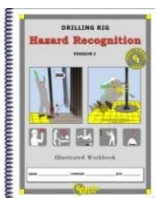
Most drilling companies have their own fabrication shops. The hazards for this work are complex. We took the time to evaluate, illustrate and teach these hazards and safety protection in ways that stay with workers. The best description of this workbook is that it is a highly effective trainer.



### Basics of Drilling Complete – Rig Pass Compliant

Spanish versions also available

Years of training, testing and empirical evidence of hazards led to the development of roughneck training that should be provided employees in the drilling industry. This 2017 combined version of the BOD and Pipe handling workbooks has **1100 illustrations** and **162 pages**. \$55.00 per copy



### Drilling Rig Hazard Recognition Workbook

Spanish versions also available

This workbook teaches hazard recognition by illustrating scenes and requiring student/employees to write down hazards they observe. The answers are on the next page in red letters. It may not be possible to determine all hazards but studies show employees who complete these exercises become adept at finding hazards. 300 illustrations, 78 pages, \$35.00 per copy.



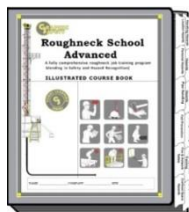
### Drilling Rig Hoist Operator + Lifting & Hoisting

This unique workbook groups "all things Lifting & Hoisting" together and 50 additional pages create a Hoist Operator certification program for Drilling Rig employees. The best part is that a relatively inexpensive workbook can be utilized right on a working drilling rig to achieve this certification....with no overtime required. You don't need a training rig...you've already got one! 700 illustrations, 103 pages. \$50.00 per copy



### Roughneck School

The Roughneck School Workbook is comprised of **critical core issues** every roughneck must learn. Job function is combined with hazard recognition and safety mitigation. This affordably condensed workbook can be completed by students on the rig (otherwise a 2-day classroom course). 260 pages, \$95.00



### Roughneck School Advanced Course-book

This complete Roughneck School covers the core issues and detailed related issues such as chemical handling, Fire & Hotwork Safety, Gas detection & Monitoring and Fire watch certifications, Confined Space certification, Fall Prevention: Slips, Trips & Falls, Ladder hazards & Usage, Fall Protection systems & Gear + certification. This is a 4-day classroom course. 494 pages, \$175 per copy

This Course-book will only be sold to companies who agrees to a non-proliferation agreement.

Continue for individual specifications and TOC.....




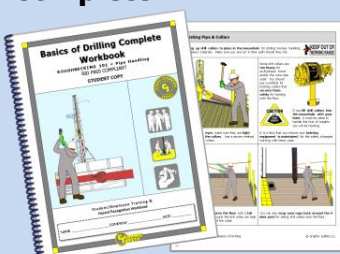
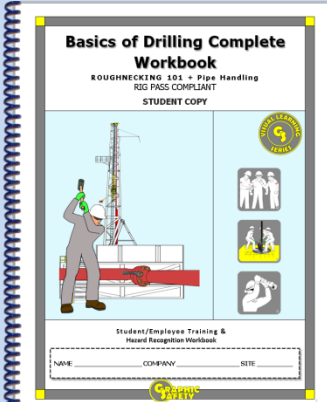
# Workbooks Specifications & Applications

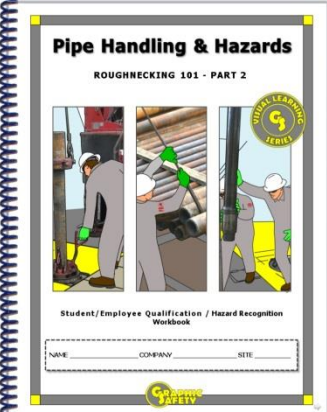


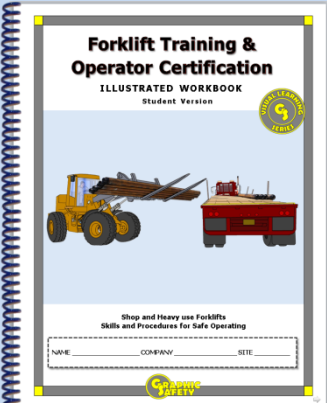
*The Visual Learning Series  
provides a huge advantage  
in educating employees  
about jobs and hazards.*


- Color balanced and well designed
- Removable tests are Scantron and GradeCam compliant
- Employees keep their own copies
- Field or classroom ready

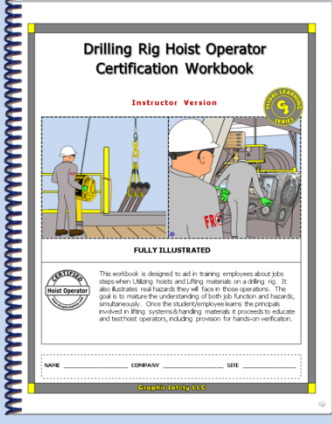
Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Metal Fabrication Shop Safety Training Workbook</b>  	Production Refineries Well Service Construction	105	>800	Double	Full safety training + hazard recognition, <b>much more than just new employee orientation.</b>
	<b>Tests</b> 2 – Tear-out recordable test – 40 questions total 2 – Visual Learning Hazard Recognition practice tests. 27 - Practice test questions* (no answers provided to students - available in Instructor Copy).				
	<b>Table of Contents</b>				
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">           Fabrication Shop Safety            Fit for Duty            Safety Rules            Hazard Assessment            Hazard Assessment Form            PPE on the worksite            Head Hazards and Protection            Eye/Face Hazards and Protection            Foot Hazards and Protection            Noise Hazards and Protection            Noise Hazards – How Loud is Too Loud?            Cold Hazard            Cold Hazard – Emergency Response            Heat Hazard            Heat Hazard – Emergency Response            Heat Index Chart            Hazard Recognition – Classroom Practice Test            Lifting Hazards            Safe Work Procedures            Lifting &amp; Hoisting Materials            Lifting &amp; Hoisting - Synthetic Slings            Synthetic Slings Inspection            Lifting &amp; Hoisting – Forklifts &amp; Hazards            Jack Stands - Prepare for Pipe Jack Stand Use            Jack Stands - Adjust Height            Jack Stands - Heads            Jack Stands - Stability Considerations            PPE for Welding &amp; Cutting            Welding &amp; Related Hazards            Welding/Working in a Confined Space            Cutting Torch Hazards            Cylinders &amp; Hazards            Oxygen/Acetylene Hazards            Safety Alert – Barrel Explosion!!            Prepare for Grinder Use            Grinding - Electrical Safety            PPE for Grinding            Grinder Maintenance            Grinder Operation Guidelines         </div> <div style="width: 48%;">           Fabrication Shop Safety Test #1            Power Tools            Working at Heights – Ladders            Working at Heights - Scaffolds            Working at Heights - Manlift            HAZCOM (Hazard Communication)            GHS Hazard Ratings            Common Industrial Chemicals            Chemical Protective Clothing (CPC)            Chemical Decontamination            Handling Hazardous Materials – Methanol            Handling Hazardous Materials - Corrosives            Chemical Hygiene Hazards            Paint Hazards            Respirators            Hazard Material Storage            Barrel Handling            Barrel Spill Hazard            Tool Use Hazards            Cutting Guide            Electrical Hazards            Grounding Methods &amp; Electrical Cord Hazards            Batteries            Lockout / Tagout – Hazard Recognition            Machinery Hazards            Maintenance            Housekeeping            Compressed Air            Hydraulic Systems            Lashing (tying down) Loads            Safety Alert! - Loose Cargo Smashes Through Windshield!            Driving Hazards            Shop Safety Inspection/Audit Form Checklist            Emergency Response            Fire Preparedness            Hazard Recognition – Classroom Practice Test            Fabrication Shop Safety Test #2            Certificate of Completion         </div> </div>				

Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Basics of Drilling Roughnecking 101 Complete</b> 	<u>Drilling Rigs only</u>	178	>1200	Double	BOD Combined with 60 pages Pipe Handling
	<b>Tests</b>	1 – Tear-out recordable test – 25 questions 7 – Visual Learning Hazard Recognition practice test. 80 - Practice test questions* (no answers provided to students - available in Instructor Copy).			
	A large workbook combining The <b>Basics of Drilling Workbook</b> and the <b>Pipe Handling Workbook</b> <b>(See their sections below for TOC)</b>				
<b>Part 1 of BOD-C</b>	<b>Table of Contents</b>				
<b>Basics of Drilling Complete (Roughnecking 101) Workbook</b> 	Location Hazards - Arriving on Worksite Location Hazards Hygiene Hazards Fit for Duty Emergency Response Hazard Recognition & Job Safety Analysis (JSA) Writing Hazard Analysis (Risk Assessment) Hazard Recognition PPE Required on Location Head Hazards and Protection Eye/Face Hazards and Protection Foot Hazards and Protection Noise Hazards and Protection Noise Hazards – How Loud is Too Loud? Fire Retardant Clothing (FRC) Other Safety Gear - PPE Hazard Recognition – Classroom Practice Test Cold Hazard Cold Hazard – Emergency Response Heat Hazard Heat Hazard – Alarming Signs Heat Hazard – Emergency Response Heat Index Chart Lifting Hazards Slips, Trips & Falls / Barricades / Handrails Fall Prevention – Ladders Personal Fall Protection Gear, Systems & Hazards Pipe Handling Pipe Handling - Hazards Lifting Slips Nipple Up / Down of the BOP Fire Preparedness Fighting Fires Confined Space Hazards - Atmosphere Confined Space Permit HAZCOM (Hazard Communication) GHS Hazard Ratings Common Industrial Chemicals Chemical Protective Clothing (CPC) Handling Hazardous Materials – Caustic Soda Chemical Decontamination 43 Handling Hazardous Materials – Methanol				
	Handling Hazardous Materials - Corrosives Paint Hazards Mixing Caustic Chemicals – Hazard Recognition Classroom Practice Test Respirators Hazard Material Storage Barrel Handling Barrel Spill Hazard Environmental Hazards Open Pits / Barricades / Disposal Tool Use Hazards Cutting Guide Electrical Hazards Generator Hazards Assured Grounding Grounding Methods & Electrical Cord Hazards Electrical Best Practices Electrical Problem Solving Explosion-Proof Systems Electrical Bad Practices Responding to Electrical Accidents Ground Fault Circuit Interrupters (GFCI) Batteries Lockout / Tagout – Hazard Recognition Lockout / Tagout – Energy Types/Hazards Lockout / Tagout – Best Practices Machinery Hazards Maintenance Housekeeping Pumps & Pressurized Equipment Hydraulic Systems Rigging Up / Down Trucks & Hazards Handling Loads Hardware Forklift Hazards Manlift Hazards Driving Hazards Hazard Recognition – Classroom Practice Test Notes Basics of Drilling Employee Qualification Test Safety Icon Legend Certificate of Completion				

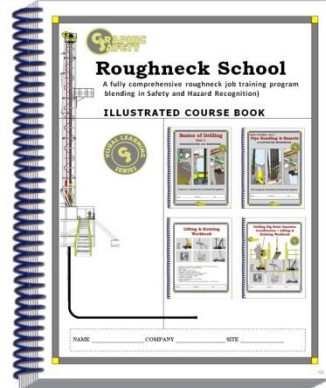
Part 2 of BOD-C	Table of Contents	
<b>Pipe Handling Workbook (built-in)</b>  	Pipe Characteristics Loading & Pipe Racks Pipe Handling - Hazard Recognition Test #1 Pipe Racks Pipe Threads Drill Bits Bottom Hole Assembly (BHA) Hoisting Pipe & Collars Drill Collars Safety Alert - Drill Collars Falling Slips & Safety Clamp Working the Floor Pipe Handling - Hazard Recognition Test #2 Hoisting Hydraulic Catwalk Hydraulic Boom Safety Alert - Tong Die Dropped Pipe Handling - Hazards Mousehole Elevators Pipe Handling - Safety Issues Elevators Pipe Tongs Tong Swing Radius Pipe Spinners	Pipe Torque Machines Safety Alert - Drill Pipe Caught Beneath Top Drive Drill Pipe Slips Lifting Slips Pipe Handling - Hazard Recognition Test #3 36 Safety While Tripping In and/or Out of the Hole T.O.O.H. - Rotating Head Safety Alert – Snagged By Hose Fatality T.O.O.H. - Work Practices T.O.O.H. - Collars Tripping In The Hole (T.I.H.) T.I.H. - Work Practices Laying Down Drill Pipe Safety Alert – Flying Pipe Laying Down Drill Collars Safety Alert - Directional Tool Falling Environment & Safety Running Casing Hazards Safety Alert - Casing Fill-Up Line Pipe Handling - Hazard Recognition Test #4 Safety Alert – Amputated Fingers Pipe Handling - Summary Pipe Handling & Hazards Test Certificate of Completion

Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Forklift Operator Certification Training Workbook</b>  	Drilling Rigs Oilfield Refineries General Industry	45	>300	Single	Universal. While some value could be obtained for smaller, factory type forklift operators, this book largely applies to outdoor, shop and rough use type forklifts.
	<b>Tests</b> 1 – Tear-out recordable test – 10 questions 1 – Visual Learning Hazard Recognition practice test. 19 - Practice test questions* (no answers provided to students - available in Instructor Copy).				
	Safety Icons Introduction and Overview Operator Qualifications Types of Forklifts Forklift Parts Surfaces and Areas of Operation Operator's Manual and Equipment Controls Steering Types Inspecting the Forklift Fuels Carbon Monoxide Batteries Safety Alert – Forklift Fatality Hydraulic Systems Inspecting the Forklift - Tires				<b>FORKLIFT OPERATOR'S DAILY REPORT</b> Forklift Operation – Moving and Handling Loads Forklift Driving Skills - Lifting Principles Forklift Driving Skills – Handling Loads Reacting to a Tipover Rated Capacities / Load Center Hazard Recognition Classroom Test Forklift Operation – Near People Forklift Operation – Electrical Hazard Lifting & Hoisting – Hazard Recognition Test Vehicle Backing / Spotting Forklift Operation – Traveling with a Load Emergency Response Summary Forklift Operator Certification Test

Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Manlift (Aerial Lift) Operator Certification Training Workbook</b> 	Drilling Rigs Oilfield Refineries General Industry	38	>300	Single	Universal across industry
	<b>Tests</b> 1 – Tear-out recordable test – 10 questions 1 – Visual Learning Hazard Recognition practice test. 15 - Practice test questions* (no answers provided to students - available in Instructor Copy).  Safety Icons Introduction and Overview Introduction and Accident Statistics Operator Qualifications Types of Manlifts Steering Types Surfaces and Areas of Operation Operator's Manual and Equipment Controls Inspecting the Manlift Batteries Hydraulic Systems Inspecting the Manlift Tires Aerial Lift Pre-Use Inspection Checklist Fuels Carbon Monoxide Manlift Operating Readiness Spotter Hand Signals Fall Protection for Manlift Operation Causes for Falling Out of Manlift Basket  Manlift Operating Skills Manlift Operating – Electrical Hazards Manlift Operating – Material Handling Manlift Operating – Stability Manlift Operating – Scissor Lifts Safety Alert – Manlift Collapse Manlift Operating Hazards – Classroom Practice Test Manlift Operating Hazards Safety Alert – Pinch Point Safety Alert – Man Crushed by Aerial Lift! Scenarios Hazard Recognition Emergency Response After Use Summary Loading & Hauling the Manlift Manlift Operator Certification Test MANLIFT OPERATOR EVALUATION				

Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Drilling Rig - Hoist Operator Certification Workbook</b> 	<u>Drilling Rigs only</u>	103	>700	Double	Combines the Lift & Hoist Workbook with 50+ additional pages of drilling rig specific issues.
	<b>Tests</b> 2 – Tear-out recordable test – 10 questions 4 – Visual Learning Hazard Recognition practice test. 26 - Practice test questions* (no answers provided to students - available in Instructor Copy).  <b>Lifting &amp; Hoisting</b> Rigger & Signallerperson Qualifications Types of Equipment Working Safely Around Cranes Boom Crane Hand Signals Handling Loads Maintenance on hoists and gear Hydraulic Systems Wire Rope Wire Rope Handling Wire Rope Spooling Setting up and using the hoist Torque Chart Wire Rope Inspection Sheave Blocks Sheave Inspection Sheaves Types of Connecting Parts Hooks Shackles Lifting Slings Chain Slings - Use Chain Slings & Turnbuckles Wire Rope Slings & Thimbles Wire Rope clamps Safety Alert! – Improper rigging results in a fatality! Synthetic Slings  Lashing (tying down) Loads Safety Alert! – Loose Cargo Smashes Through Windshield Lashing (tying down) Loads Safety Alert – Towing Hazard = Flying Ball Lifting & Hoisting - Summary Lifting & Hoisting Workbook Test  <b>Drilling Rig Hoist Operator Certification</b> Lifting & Hoisting Qualifications Using the hoist The hoist line – Safety Issues Hazard Recognition - Test Safety Alert! – Improper rigging results in a fatality Lifting & Hoisting – Drill Pipe Drilling Rig Hoisting System Rig Hoisting System Parts Lifting & Hoisting – Derrick Safety Alert – Man struck by beam Rig Hoisting System Parts Top Drive Safety Safety Alert! – Man's thumb crushed Cut & Slip Wire Rope (Drilling Line) Cut & Remove Wire Rope Brake Assembly Inspection Torque Chart				

	Synthetic Slings Rigging for Lifting & Hoisting Lifting & Hoisting Personnel Lifting & Hoisting – Hazard Recognition Test Safety Alert! – Dropped Object Trucks & Hazards Vehicle Backing / Spotting Trucks & Handling Loads Safety Alert – Smashed Truck Cab Lifting & Hoisting – Hazard Recognition Practice Test Manual Lifting & Handling Working on Location	Slip New Wire Rope onto the System Completing Cut & Slip Job CROWN SAFETY DEVICE STANDARD OPERATING PROCEDURES Crown Safety Device Test Log Lifting & Hoisting – Hazard Recognition Test Fouling the drum Wireline Machine HYDRAULIC CATWALK OPERATING PROCEDURES Lifting & Hoisting - Summary Lifting & Hoisting Workbook Test Hoist Operator Evaluation
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Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Roughneck School Workbook</b>  	<u>Drilling Rigs only</u>	260	>1800	Double	Core-critical Roughneck Training combines the above 2 workbooks.
	<b>Tests</b>	3 – Tear-out recordable test – 2=20, 1=25 questions. Total 65 test questions. 11 – Visual Learning Hazard Recognition practice test. 106 - Practice test questions* (no answers provided to students - available in Instructor Copy).			
	A large workbook combining; <ul style="list-style-type: none"><li>• <b>Basics of Drilling Workbook</b></li><li>• <b>Pipe Handling Workbook</b></li><li>• <b>Lifting &amp; Hoisting Workbook</b></li><li>• <b>Drilling Rig Hoist Operator Certification Workbook</b></li></ul> into the 'Critical Core Elements' of Roughneck Training.  (See their sections for TOC)				

Title	Applies to	Pages	Illustration count	Single-sided or double-sided	Notes
<b>Roughneck School Advanced Course-book</b>	<u>Drilling Rigs only</u>	494	4000	Double	Combines 7 of these workbooks and 40 +/- additional pages that are drilling rig specific.
	<b>Tests</b>	10 - Tear-out, recordable tests (multiple choice) equalling 130 questions. 16 – Visual Learning Hazard Recognition practice tests. 154 - Practice test questions* (no answers provided to students - available on answer sheet).			
<b>Drilling Rig Hazard Recognition Training for Supervisors</b>	<u>Drilling Rigs only</u>	520	4050	Double	This is the Roughneck School Advanced with added materials on Hazard Recognition & Roughneck Training Management.
	<b>Tests</b>	10 - Tear-out, recordable tests (multiple choice) equalling 130 questions. 16 – Visual Learning Hazard Recognition practice tests. 154 - Practice test questions* (no answers provided to students - available on answer sheet).			

\* The practice tests are all essay questions where students must provide a written response. Student writing answers is a practical form of "hands-on" training, the same methods that colleges use to reinforce learning.

