

2017 CLOSED AMTEC Instructor Feedback Surveys

***Please be aware that changes are made in the AMTEC MASTER files only and do not push out to the cloned modules immediately. However, you will see the changes when you receive a new clone of the module.**

2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher/SCTC
Date Submitted:	03/29/2017
Module#/Lesson-Lab#:	AMT 1011, 1012, 1013, 1014, 1015, 1016 and 1017/1
Page/Section:	Hydraulic Fluids page (page 4)
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Lesson has typo/grammatical error/formatting error. The link has old information as the MSDS has changed to SDS.
Survey Recommendation:	Follow the link to the CITGO FR-40 XD Hydraulic Fluid MSDS, then answer questions in the Quiz Group activity on the following page: CITGO FR-40 XD Hydraulic Fluid MSDS
Date/Resolution: 5/01/2017	I went out on the internet and was able to find the new CITO HYDRAULIC FLUID SDS and attach it to Lesson 1 of every 101X Safety page. (Editor's note: I had to also fix the quiz issues in all of 101X for Quiz 1 as well because developers took the questions out of the text and put them into Quiz 1 BUT they did not also include the SDS that the questions referred to—Questions 1, 2, 3, 4 and 5 had to have the SDS linked to it as well.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/26/2017
Module#/Lesson-Lab#:	1011/ Quizzes
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	*Other- The students are able to take the quiz once and after that they aren't able to take it again even though I have it set so they can take the quizzes multiple times. If they try to take it again all they see is the previous quiz they took with the answers already selected and it won't allow them to select a different answer so once they take the quiz that's it, they can't take it again.
Survey Recommendation:	Set quizzes to be able to re-take unlimited times.
Date/Resolution:	4/18/2017- LMS development team reports that students can re-take lesson quizzes as many times as they want to now.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/25/2017
Module#/Lesson-Lab#:	1011/ Post-Assessment
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	*Other
Survey Recommendation:	When a student finished the post-assessment for module 1 and pressed finished it went to another page. When he checked to see if it at least recorded his results he found it didn't. When he went back in to access the test it asked if he wanted to continue the last attempt. When he accessed it, all the answers were blank and he couldn't take the test.
Date/Resolution:	4/18/2017- Instructor was told that the Pre and Post-Assessments do not capture answers and allow students to go back in and pick up where they left off. ALL pre and post-assessments should be taken in one sitting.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/17/2017
Module#/Lesson-Lab#:	1011/ Lesson ALL
Page/Section:	Quizzes
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	After the students take the quiz they aren't able to see what questions they got right and which ones they got wrong. The instructor is not able to see this either and it makes it hard for me to go through and proof read through the quizzes to make sure that the questions and answers have no issues. This is a problem with all lessons in all modules.
Survey Recommendation:	
Date/Resolution:	4/18/2017-Students can now see the answers to the quizzes as per LMS development team.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/19/2017
Module#/Lesson-Lab#:	ALL
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	*Other
Survey Recommendation:	Students mentioned they aren't able to see their progress through the modules and was wondering if there was a way to have a progress icon or bar in the module showing them which lessons they have completed so they can quickly tell where they are at.
Date/Resolution:	4/18/2017- The LMS developer has initiated and checked the progress bar in all tenant modules. They report it is working correctly.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	Enoch at Help Desk/Everett had reported it to Help Desk
Date Submitted:	04/10/2017
Module#/Lesson-Lab#:	1081/ Lesson 2
Page/Section:	Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Quiz question has wrong answers. "--The general guidelines for proper personal protective equipment (PPE) includes all of the following EXCEPT:"
Survey Recommendation:	Change answer.
Date/Resolution:	04/10/2017- Student did not get that the question was a "Check All that Apply" question, so I added the phrase, "Check ALL That Apply" to clarify.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	Enoch at Help Desk/Everett had reported it to Help Desk
Date Submitted:	04/10/2017
Module#/Lesson-Lab#:	1081/ Lesson 2
Page/Section:	Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Quiz question has wrong answer. "-It is the employee's responsibility to get their own training in safety and pay for PPE."
Survey Recommendation:	Change answer to False.
Date/Resolution:	04/10/2017- Changed answer to False.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Sutherland/ECTC
Date Submitted:	04/10/2017
Module#/Lesson-Lab#:	1071/ Lesson 1
Page/Section:	Pre-Assessment
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	*Other-- If you exit before finishing all answers are lost. Module should save your answers.
Survey Recommendation:	Module should save your answers.
Date/Resolution:	04/10/2017- Emailed Ken and explained to him that both Pre and Post-Assessments must be taken and submitted in one sitting.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher/Somerset
Date Submitted:	03/09/2017
Module#/Lesson-Lab#:	1016/ Lesson 5
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	End of Lesson quiz was misworded.
Survey Recommendation:	The word "pressure" X 2 in the question "Using the correct formula for pressure, calculate the maximum pressure for a cylinder with a 3 inch diameter, at a system pressure of 1,000 psi" needs to be changed to "force."
Date/Resolution:	03/10/2017- Changed the word "pressure" X 2 to "force." Question now reads, "Using the correct formula for force, calculate the maximum force for a cylinder with a 3 inch diameter, at a system pressure of 1,000 psi."

Using the correct formula for force, calculate the maximum force for a cylinder with a 3 inch diameter, at a system pressure of 1,000 psi.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	W. Tucker/Everett
Date Submitted:	03/04/2017
Module#/Lesson-Lab#:	1016/ Lesson 5
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Answers were not set-up by developer to "Multi-Answer" so only one choice could be selected. "Which of the following does the hydraulic system information tag contain?" and "Where can the hydraulic power unit information for the AMTEC Trainer typically be found?" Set to "Multi-Answer."
Survey Recommendation:	Set the questions to "Multi-Answer" from "Multiple Choice" and add "Check all answers that apply" to questions.
Date/Resolution:	03/08/2017- Set the questions to "Multi-Answer" from "Multiple Choice" and added "Check all answers that apply" to questions.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	K. Ritter/Everett
Date Submitted:	02/28/2017
Module#/Lesson-Lab#:	1016/ Lesson 8
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Answer was marked incorrect. Student did not realize that the question was a “Mark ALL answers that Apply,” so when he checked only one of the correct answers, it was marked incorrect.
Survey Recommendation:	Sent the explanation to Anatoliy—Help Desk.
Date/Resolution:	2/28/2017- Sent the explanation to the Help Desk.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	P. McCrevice/Everett
Date Submitted:	02/28/2017
Module#/Lesson-Lab#:	1016/ Lesson 8
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Question has NO answer checked to give credit- " Typically on a pressure transmitter using 4-20 mA, the engineering span (maximum) point is _____."
Survey Recommendation:	Add the 1-point to the correct answer of "20 mA."
Date/Resolution:	2/28/2017- Added the 1-point to the correct answer of "20 mA."

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	W. Tucker/Everett
Date Submitted:	02/27/2017
Module#/Lesson-Lab#:	1052/ Post-Assessment
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Question has duplicate answer- "For the FANUC robotic system, what type of character must all programs include?"
Survey Recommendation:	Change one of the duplicate answers to "Dash" from "Number."
Date/Resolution:	2/27/2017- Changed "Number" to "Dash."

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher/Somerset
Date Submitted:	02/23/2017
Module#/Lesson-Lab#:	1011/ Lesson 4
Page/Section:	Gas Laws
Paragraph/Figure#/Etc.:	Boyle's Law
Status:	CLOSED
Survey Issue:	Wrong number in the formula question. "If we begin with 150 cu. ft. of air at 6 psig what will the final volume be at 85 psig?"
Survey Recommendation:	Change the 150 cu. ft. to 100 cu. ft.
Date/Resolution:	2/23/2017- Changed "150 cu. ft." to "100 cu. ft." See below.

If the volume of a closed container is reduced the pressure of the gas inside increases proportionately. Or, if we increase
If we begin with 150 cu. ft. of air at 6 psig what will the final volume be at 85 psig? Using absolute units we find volume.

If the volume of a closed container is reduced the pressure of the gas inside increases proportionately. Or, if we increase
If we begin with 100 cu. ft. of air at 6 psig what will the final volume be at 85 psig? Using absolute units we find volume.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher/Somerset
Date Submitted:	02/23/2017
Module#/Lesson-Lab#:	1015/ Pre-Assessment
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Duplicate answer.
Survey Recommendation:	Change one of the “the diameter of the hose being too large for flows and velocities” to another distractor.
Date/Resolution:	2/23/2017- Changed to “the pump having too low an efficiency rating”. See below.

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Requester/Institution:	B. Tincher/Somerset
Date Submitted:	02/23/2017
Module#/Lesson-Lab#:	1015/ Pre-Assessment
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Duplicate answer.
Survey Recommendation:	Change one of the “the diameter of the hose being too large for flows and velocities” to another distractor.
Date/Resolution:	2/23/2017- Changed to “the pump having too low an efficiency rating”. See below.

Excessive resistance in a hydraulic system can be caused by _____

Select one:

A a. the diameter of the hose being too large for flows and velocities

B b. the pump having too high an efficiency rating

C c. the diameter of the hose being too small for flows and velocities

D d. the pump having too low an efficiency rating

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher/Somerset
Date Submitted:	02/21/2017
Module#/Lesson-Lab#:	1081/ Lesson 3
Page/Section:	Pages 5 and 6 are both "Laser Labels"
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Duplicate pages brought over by developer.
Survey Recommendation:	Remove page 6 of "Laser Labels."
Date/Resolution:	2/23/2017- Removed page 6 that was duplicated.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	J. Kronberger/???
Date Submitted:	02/14/2017
Module#/Lesson-Lab#:	1015/ Lesson 2
Page/Section:	Page Tube and Pipe Ebnding
Paragraph/Figure#/Etc.:	4th paragraph "Springback"
Status:	CLOSED
Survey Issue:	Sentence needs word change to make sense. "This can be between to ten degrees depending on the radius of bend, and may increase the bend radius of the tube."
Survey Recommendation:	Craig instructed to change the word "between" to "up."
Date/Resolution:	2/23/2017- Changed "between" to "up" so that sentence reads, "This can be up to ten degrees depending on the radius of bend, and may increase the bend radius of the tube." See below.

Springback is the amount that the tube will un-bend when the pressure is released from the pressure die. This can be up to ten degrees depending on the radius of bend, and may increase the bend radius of the tube.

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Requester/Institution:	B. Tincher/Somerset
Date Submitted:	02/13/2017
Module#/Lesson-Lab#:	1022/ Lesson 3
Page/Section:	Pages 5 and 6 are both "Laser Labels"
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Duplicate pages brought over by developer.
Survey Recommendation:	Remove page 6 of "Laser Labels."
Date/Resolution:	2/23/2017- Removed page 6 that was duplicated.

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Requester/Institution:	K. Ackerman/Everett
Date Submitted:	02/07/2017
Module#/Lesson-Lab#:	1022/ Lesson 3
Page/Section:	Pages 5 and 6 are both "Laser Labels"
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Duplicate pages brought over by developer.
Survey Recommendation:	Remove page 6 of "Laser Labels."
Date/Resolution:	2/23/2017- Removed page 6 that was duplicated.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher & K. Ackerman/Somerset & Everett
Date Submitted:	02/06/2017
Module#/Lesson-Lab#:	1011/ Lesson 2
Page/Section:	Quiz Group 1
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	End of Lesson Quiz question is badly worded/confusing.
Survey Recommendation:	Re-write question- "Cap Area (sq. inches) = $D^2 \times .7854$ $3 \text{ in}^2 \times .7854 = \underline{\hspace{2cm}}$ sq. in. Note: calculate to three decimal places
Date/Resolution:	2/23/2017- Re-wrote question and added text information box as well. See below.

To find the Annular Area (sq. in.) = Cap Area - Rod Area

Annular area to retract = $A_P - A_R$

Stroke = 12
 Piston Diameter = 3
 Rod Diameter = 1
 GPM = 10
 Pressure = 2500 psi

Using the information above, the Annular Area is _____ sq. in.

Note: Calculate to three decimal places.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	B. Tincher & K. Ackerman/Somerset & Everett
Date Submitted:	02/06/2017
Module#/Lesson-Lab#:	1011/ Lesson 2
Page/Section:	Quiz Group 1
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	End of Lesson Quiz question is badly worded/confusing.
Survey Recommendation:	<p>Re-write question- "Cap Area (sq. inches) = $D^2 \times .7854$</p> <p>$3 \text{ in}^2 \times .7854 = \underline{\hspace{2cm}}$ sq. in.</p> <p>Note: calculate to three decimal places.</p>
Date/Resolution:	2/23/2017- Re-wrote question and added text information box as well. See below.

To find the area of the piston, square the diameter and multiply by .7854 or $A = D^2 \times .7854$ (NOTE: Questions 1, 2 and 3 are a grouping using the same information to solve.)

Cap area to extend (A_p) = $D^2 \times .7854$

Stroke = 12
Piston Diameter = 3
Rod Diameter = 1
GPM = 10
Pressure = 2500 psi

Using the information above, the Cap Area of the piston is _____ sq. in.
Note: Calculate to three decimal places.

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Requester/Institution:	B. Tincher & K. Ackerman/Somerset & Everett
Date Submitted:	02/06/2017
Module#/Lesson-Lab#:	1011/ Lesson 2
Page/Section:	Quiz Group 1
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	End of Lesson Quiz question is badly worded/confusing.
Survey Recommendation:	<p>Re-write question- Rod Area (sq. in.) = $d^2 \times .7854$</p> <p>1 in.² x .7854 = _____ sq. in</p> <p>Note: calculate to three decimal places.</p>
Date/Resolution:	2/23/2017- Re-wrote question and added text information box as well. See below.

To find the area of the piston, square the diameter and multiply by .7854 or $A = D^2 \times .7854$

Rod area (A_R) = $d^2 \times .7854$

Stroke = 12
 Piston Diameter = 3
 Rod Diameter = 1
 GPM = 10
 Pressure = 2500 psi

Using the answers from questions 1 and 2 above (or the formulas provided), the Rod Area of the piston is _____ sq. in

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Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/31/2017
Module#/Lesson-Lab#:	1021/ Lesson 9
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	End of Lesson Quiz question is badly worded/confusing. "Lubricants primarily _____. dissipate heat provide a barrier from outside contamination provide suspension for water and moisture dissipate heat"
Survey Recommendation:	The lesson states that "Primarily, lubricants reduce friction, dissipate heat, prevent rust and corrosion, and provide a barrier to outside contamination." but the quiz question pertaining to this asks for one correct answer even though the lesson states that all of them are primary reasons. This is ambiguous and confusing.
Date/Resolution:	2/21/2017 – I changed the question to read "Lubricants primarily do ALL these except _____." Answer: Increase heat. See below.

Lubricants primarily do ALL of these except _____.

provide a barrier from outside contamination

dissipate rust

increase heat

provide suspension for water and moisture

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Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/31/2017
Module#/Lesson-Lab#:	1011/ Lessons ALL
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	*Other- Students can't see which questions they got right or wrong after taking the post assessment so they don't know what material to study or which questions they have to work on when retaking it.
Survey Recommendation:	[AMTEC should] make it so that ALL quizzes and post-assessment results can be viewed by the students and instructor so the students can identify what they missed so they know what areas they need to work on and so the instructor can go through and proof read the questions and make sure they are correct and that the correct answers are marked correct after answering so that the instructors can notify students of faulty questions ahead of time.
Date/Resolution:	2/21/2017 – Competency-based education is not predicated on “teaching to the test,” so AMTEC does not provide students with the answers to the pre or post-assessments. The AMTEC curriculum is set-up as a competency-based learning system. Students complete the module lessons, the module quizzes (where they can view results), next they complete their hands-on labs (where they can question and clarify issues with their instructor) and then they take the post-assessment. The information the student gleans from the lessons, labs, quizzes and from their instructor should be exactly what they need to do well on the post-assessment.

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Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/31/2017
Module#/Lesson-Lab#:	1021/ Lesson 3
Page/Section:	End of Lesson Quiz
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	<div style="border: 1px solid black; padding: 5px;"> <p>A _____ is required by OSHA to be placed upstream of any hoses exceeding one-half inch inside diameter.</p> <p><input checked="" type="radio"/> Pneumatic air fuse</p> <p><input type="radio"/> Pressure reducing valve</p> <p><input type="radio"/> Backpressure valve</p> <p><input type="radio"/> Unloading valve</p> </div>
Survey Recommendation:	Make sure to cover the material in the module or don't include the question on the quiz.
Date/Resolution:	2/21/2017 – I went into Lesson 3 of Module 1021 and see six end of lesson questions, but do not find that question among them. Guessing that maybe the wrong lesson number was cited (??) but I cannot fix the question unless I know exactly where it's actually located.

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2017 CLOSED AMTEC Instructor Feedback Surveys

Requester/Institution:	M. Beaulieu/Bluegrass
Date Submitted:	01/26/2017
Module#/Lesson-Lab#:	1081/ Lesson 6
Page/Section:	N/A
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Lesson Quiz has correct answer being marked as incorrect
Survey Recommendation:	<p>A _____ is mechanical device utilized to change the output torque or the speed of a motor or prime mover.</p> <p>chain *pulley *gearbox v-belt</p> <p>The correct answer is gearbox. However, upon submission, students are getting a wrong answer, saying it is chain.</p>
Date/Resolution:	2/21/2017 – I changed the correct answer to “gearbox.” See below.

A _____ is a mechanical device utilized to change the output torque or the speed of a motor or prime mover.

Answer 3: gearbox

Response 3

Score 1

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Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/24/2017
Module#/Lesson-Lab#:	1012/ Lesson 3
Page/Section:	2, 3 and 7
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Lesson has typo/grammatical error/formatting error.
Survey Recommendation:	Missing figure on pages 2 and 3, page 7 last paragraph second sentence "hole" is spelled "whole", in same paragraph the last sentence uses "has" when it should use "have".
Date/Resolution:	2/21/2017 – I found no issues with images. I have double-checked page 2 (Flow and Pressure Controls page) and three figures are referenced and 3 figures are showing using Internet Explorer browser. Double-checked page 3 (Flow Control Valves page) and three figures are referenced and 3 figures are showing (see below). It maybe the page needed to be refreshed OR the browser being used needed to be cached. I changed the word “whole” to “hole” and the verb “has” to “have.”

Flow Control Valves

Adjustable Flow Control

Flow rate control is indicated by showing the symbol as seen in Figure 1 for a restriction and then an arrow to indicate that it is adjustable.

Flow is adjusted by creating a restriction – reducing the cross-sectional area for the fluid. The **needle valve** shown in Figure 2, a restriction is created by turning a stem tip into the fluid stream. The further the tip is engaged, the more the flow will be restricted.

Valves control the flow rate of fluids.

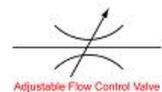
Flow control is used to regulate the speed of an actuator. Regulating the speed of the flow can be precisely controlled by slowly changing the **cross-sectional area** of the orifice.

As seen in Figure 2, the **needle valve** adjusts the size of the orifice by changing the distance of a needle-shaped part and the valve seat. A knob is needed for adjustment as it will turn many revolutions instead of the 1/4 turn of a shut off valve.

Flow control valves are normally located in or at the **actuator's ports** or in the **exhaust ports** of directional control valves as shown in Figure 3 .



Figure 3: Flow Control Valves on a Pneumatic Cylinder



Adjustable Flow Control Valve

Figure 1: Adjustable Flow Control Valve Symbol

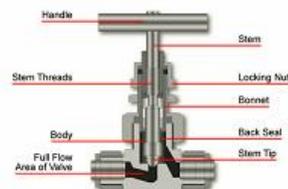


Figure 2: Needle Valve

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Pilot operated pressure relief valve has a pilot stage and main stage. The main stage spring has a piston with a hole through pressure is sensed by the pilot stage poppet. As soon as the pressure pushes the poppet off its seat the pressure in the up has very little pressure override and therefore is used in systems that have higher pressures and sensitive components.

Requester/Institution:	K. Ackerman/Everett
Date Submitted:	01/17/2017
Module#/Lesson-Lab#:	1012/ Lesson 2
Page/Section:	3, 4 and 5
Paragraph/Figure#/Etc.:	N/A
Status:	CLOSED
Survey Issue:	Lesson has typo/grammatical error/formatting error.
Survey Recommendation:	There are supposed to be figures in Lesson 2 on pages 3, 4, and 5 but there are no figures showing.
Date/Resolution:	2/21/2017 – I found no issues with images. I have double-checked page 3 (Check Valves page) and four figures are referenced and 4 figures are showing using Internet Explorer browser. Double-checked page 4 (Directional Valves page) and two figures are referenced and 2 figures are showing (see below). Double-checked page 4 (Port labeling page) and two figures are referenced and 2 figures are showing. It maybe the page needed to be refreshed OR the browser being used needed to be cached.

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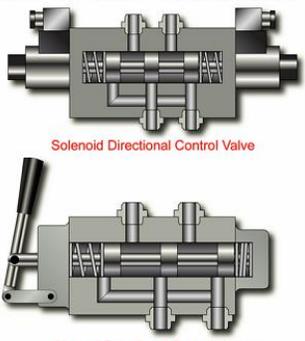
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Directional Control Valves

Directional Control Valves (DCVs), as shown in **Figure 1**, are used to change the direction of flow in a hydraulic/pneumatic system. DCVs are commonly used for material transfer, pressing, and any other fluid power system that depends on **cycling actuators**.

Fluid power circuits use DCVs to control the movement of actuators.

In this example shown in **Figure 2** the DCV exhausts the pump flow to the tank when the valve is in its neutral position (its resting position when not actuated). When the valve shifts, flow goes to the cylinder to move it forward.



Solenoid Directional Control Valve

Manual Directional Control Valve

Figure 1: Directional Control Valves

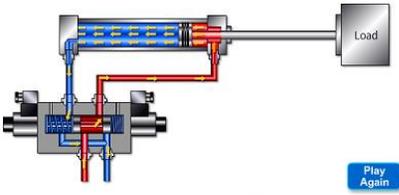


Figure 2: Hydraulic Power System

Play Again

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