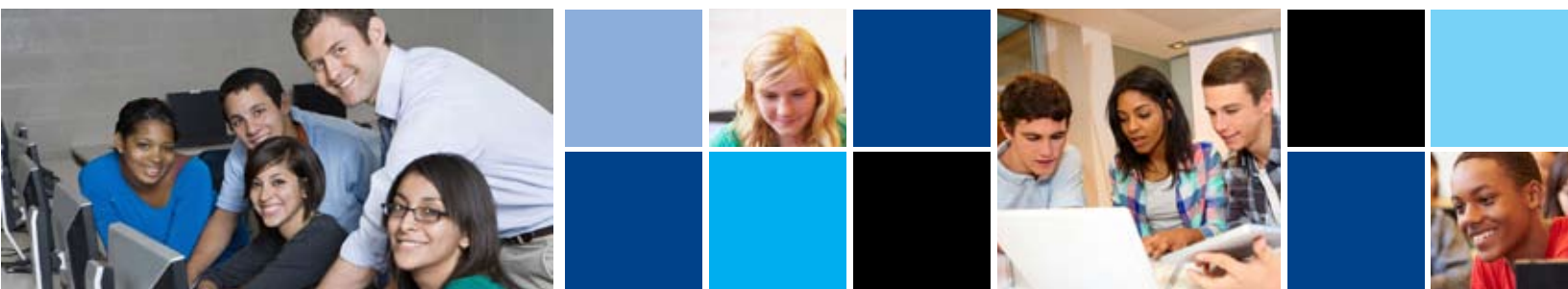




**FALK PLI**

*Engineering & Surveying*

**Careers in Manufacturing  
Instructional Guide**



**Real People. Real Jobs. Real Opportunity.**



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## Purpose of READY NWI Video Series and Instructional Guide

The READY NWI video series offers an opportunity for viewers to look inside a company to discover and learn about their mission, daily operations, and what their scope of service entails. The videos posted on the READY NWI webpage offer advice and guidance on how to begin pursuing each career, while providing information on the “ins and outs” of the company. Employers discuss such topics as character traits required for employment, expectations for intern performance, the importance of a college education, and how to determine what career may be a good fit when looking through the lens of a potential employee.

## Goal Attainment for READY NWI Video Series

Learners are to watch the videos, participating in discussion while retaining pertinent information about the company being viewed.

## Outline for Students, Parents, Instructors, and Classrooms

*Topics and Discussion Points  
(target 6 – 8th grade students)*

### 1 DEFINITIONS

- A. Surveying
- B. Engineering
- C. Precision Measurement

### 2 QUESTIONS FOR VIDEO COMPREHENSION

- A. This section ensures concepts from the video are understood.
- B. Requires pen and paper

### 3 TEACHING SESSION RECAP

- A. This is the student’s specific takeaway
- B. Requires pen and paper

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## NOTES FOR THE INSTRUCTOR OR FACILITATOR

Here are several spring-boards for discussion to be used in conjunction with the **READY NWI Videos:**

Be professional

Honor the employees who hired you

Try to volunteer at a company



### About the Company:

Falk PLI is a nationally recognized, innovative engineering and surveying firm serving the industrial, commercial and residential sectors. By implementing sophisticated, cutting-edge technology backed by our extensive experience we help our clients realize increased productivity and improved processes.

## Explanation of READY Videos for ages 12-14

Your students are at an age where learning different subjects with various skills is important for academic success. At this point in their education, they may have some ideas for what they would like to do in their future. A portion of the Ready NWI project is for the facilitator to share information with students about how getting a job works.

### 1 DEFINITIONS

*The following section is for discussion with the students prior to watching the video. First, ask the students what each of the words mean to them, then provide the following definitions from Encarta Dictionary:*

**Surveying** - to make a detailed map of an area of land, including its boundaries, area, and elevation, using geometry and trigonometry to measure angles and distances

**Engineering** - the application of science in the design, planning, construction, and maintenance of buildings, machines, and other manufactured things

**Precision** - the accuracy to which a calculation is performed, specifying the number of significant digits with which the result is expressed

### 2 QUESTIONS FOR VIDEO COMPREHENSION

*The following section requires a writing utensil and a paper, or a computer. The student, after viewing the video, should be able to answer these questions, ensuring they understood the video. The activity is best completed by each student individually, but can also be done as a pair discussion.*

1. What does Falk PLI do as a company? Are they in the laser business?
2. In your opinion what is the best position to hold at Falk PLI?
3. Does Falk PLI fix faulty laser equipment?
4. What types of instruments are manufactured there, optical equipment, piano wire, laser tracking?

5. If you were to research which college to attend, what resource would you lose?
6. Do you work better in teams, or doing work by yourself?
7. As a student, are you hardworking, intrigued, or indifferent?
8. Are soft skills the same as interpersonal skills?

Bonus Question:

Which employees (types of jobs or job titles) are represented in each question?

### **3** TEACHING SESSION RECAP

*After the group discussion and video comprehension sessions have been completed, each student should have a pen and paper in order to engage in the next process. The goal of the Recap is to integrate ideas spawned during discussion with comprehension questions administered.*

1. What was your favorite segment of the video?
2. What did you learn about this genre of work?
3. Was there a new idea or concept that you now understand?
4. Could you work in this field?
5. If you could ask an employee at Falk PLI one question, what would it be?

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This instructional guide was developed by the Center of Workforce Innovations. For further information call 219-462-2940 or visit the READY NWI website at [www.readynwi.com](http://www.readynwi.com).