



GOVERNMENT PROPERTIE

# Lesson Exemplar for TLE



IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

## Lesson Exemplar for TLE Grade 7 Quarter 4: Lesson 1 (Week 1) SY 2024-2025

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Development Team					
<ul><li>Writer:</li><li>Kristelyn B. Garcia (Veinte Reales National High School)</li></ul>					
<ul> <li>Validator:</li> <li>Christopher T. Dumadag, MTTE (Mindanao State University – Iligan Institute of Technology)</li> </ul>					
Management Team					
Philippine Normal University Research Institute for Teacher Quality SiMERR National Research Centre					

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## TLE /QUARTER 4/ GRADE 7

I. C	I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES					
А.	Content Standards	The learners demonstrate an understanding of the concepts in industrial arts services.				
B.	Performance Standards	The learners perform mensuration and calculations following safety precautions.				
c.	Learning Competencies and Objectives	<ul> <li>Learning Competency <ul> <li>Discuss the services of Industrial Arts</li> </ul> </li> <li>Learning Objectives <ul> <li>Reiterate the history of Industrial Arts</li> <li>Enumerate the different areas in Industrial Arts</li> <li>Discuss the role of industrial arts in career education</li> <li>Determine career and business opportunities in industrial arts</li> </ul> </li> </ul>				
D.	Content	<ul> <li>History of Industrial Arts</li> <li>Areas in Industrial Arts</li> <li>Industrial Arts strand specializations</li> <li>Career and Business Opportunities in Industrial Arts -Construction, Electrical-electronics, and Automotive and small engine</li> </ul>				
E.	Integration	Industrial arts contribute to personal development by fostering creativity, problem-solving, and manual skills. This lesson can be integrated and related to:				
		<ul> <li>SDG 5: Gender Equality: This lesson will help learners realize that equality between men and women exists when both sexes can share equally in the distribution of power and influence, have equal opportunities for financial independence through work or through setting up businesses, enjoy equal access to education and the opportunity to develop personal ambitions.</li> <li>SDG 8—Decent Work and Economic Growth: The lessons and activities in the exemplar enable the learners to discuss the services of industrial arts and expose them to various industrial and engineering technologies, improving their understanding of the industrial and engineered world.</li> </ul>				

## **II. LEARNING RESOURCES**

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- FreeStockPhotos,PNGs,Templates& Mockupsrawpixel.(n.d.).Rawpixel.<a href="https://www.rawpixel.com/search?page=1&path=\_topics&similar=6510007&sort=curated">https://www.rawpixel.com/search?page=1&path=\_topics&similar=6510007&sort=curated</a>rawpixel.(n.d.).Rawpixel.
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Tambus, A. (2018, June 18). Cartoon Welder Clipart Transparent Background, Cartoon Welders, Cartoon Clipart, Red Hat, Electric Welder PNG Image For Free Download. Pinterest. <u>https://in.pinterest.com/pin/cartoon-welder-clipart-transparent-background-cartoon-welders-cartoon-clipart-red-hat-electric-welder-png-image-for-free-download--699395017107053956/</u>

TESDA Official. (2023, December 15). Narito ang kwento ni Anna Liza at kung paano sya natulungan ng RCEF. [Video]. YouTube. https://www.youtube.com/watch?v=29OGET\_U3I8

The English Industrial Revolution and change to the landscape by Angus McBride. (n.d.). Pixels. <u>https://pixels.com/featured/the-english-industrial-revolution-and-change-to-the-landscape-angus-mcbride.html</u>

III. TEACHING AND	LEARNING PROCEDURE	NOTES TO TEACHERS	
A. Activating Prior Knowledge	<ul> <li>DAY 1</li> <li>1. Short Review: Picture Analysis         Directions: Using a graphic organizer, trace the learners'         prior knowledge of Industrial arts. Ask the learners to         complete the picture about their idea of industrial arts.     </li> </ul>	The teacher will use a graphic organizer to assess the student's knowledge of industrial arts. Prepare a set of questions for students to reflect on the graphic organizers.	
	After the short review, the teacher must ask the students if they still have questions about industrial arts.		
B. Establishing Lesson Purpose			

	<ul> <li>Industrial Arts Education - an educational program that features the fabrication of objects in wood or metal using various hand, power, or machine tools.</li> <li>Career Education- helps students develop the skills to evaluate potential career paths.</li> <li>Technology- the branch of knowledge that deals with the creation and use of technical means and their interrelation with life, society, and the environment, drawing upon such subjects as industrial arts, engineering, applied science, and pure science.</li> <li>Work Simplification- removing tasks from existing roles to make them more focused.</li> </ul>	
C. Developing and Deepening Understanding	<ul> <li>SUBTOPIC 1: History of Industrial Arts         <ol> <li>Explicitation</li></ol></li></ul>	The teacher will introduce the lesson. You can ask questions to students about their idea of Industrial arts. Let the student watch the video clip to understand the history better. <u>https://www.youtube.com/wa</u> <u>tch?v=VqCrHGiClcg</u> Note: You may also let the student watch about the 4 <sup>th</sup> Industrial Revolution so that they become aware of the current events and their
	<ul> <li>teaching students' specific skills such as automobile repair or furniture design. Today, the meaning of industrial arts encompasses various technical specialties.</li> <li><b>Purpose of Industrial Arts</b> The purpose of industrial arts incorporates societal factors such as technology with personal career development. A student trained in industrial art contributes to the advancement of society regardless of whether the career is in manufacturing or design. For example, a graduate of an industrial arts program focusing on machinery learns advanced safety techniques and methods of streamlining manufacturing. A design student creates new and advanced packaging for toys, which reduces waste. </li> </ul>	possible effects on industrial arts. CNBC International. (2019, January 22). What is the Fourth Industrial Revolution?   CNBC Explains. YouTube. https://www.youtube.com/wa tch?v=v9rZOa3CUC8

Proper citation of the video is The meaning behind the demand for people trained in industrial arts changes with the needs needed to avoid copyright of the employing corporations. For example, the demand for industrial artists during the issues. 1940s included people adept at shortwave radio design for use in World War II, according to the Encyclopedia of Chicago. Talented designers offer companies an edge over the competition and provide society with the desired technologically advanced products. 2. Worked Example Class sharing: • How and why did the Industrial Revolution happen? What was the message of the Industrial Revolution? • How did the 4th Industrial Revolution affect the Industrial Arts? 3. Lesson Activity: Picture Analysis **Directions**: Based on the photo shown in the presentation, answer the following questions. Guide Ouestions: a. What do you think is the message of the picture? b. Can you tell me more about the picture? Note: You may use another c. How will you interpret the picture shown? image that will represent the d. What do you think of the idea or message of the picture? same context. Day 2 **SUBTOPIC 2: Areas in Industrial Arts 1. Explicitation: Name It! Directions:** Categorize the given areas in Industrial Arts based on the given picture. Post the picture on the board, and let the students categorize the picture based on the areas Source: IconicBestiary. (2019, December 10). Electrician engineer man working with breaker and fuse box. . .. Source: Ginny. (n.d.). Flat car mechanic PNG and of Industrial Arts. Vector. Pngtree. https://pngtree.com/so/car Source: Free carpenter Clipart Images FreeImages. (n.d.). Free Images Note: Please use pictures that After the activity, introduce the new lesson. promote gender equality, such as those of men and women **Areas In Industrial Arts** working as carpenters or Industrial Arts allow students to acquire insight into various technical and trade electricians.

areas. Lab or shop classes are not designed to turn out tradespeople or technicians but

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to acquaint students with multiple occupations requiring mental and manual skills. Industrial art class experiences will have carry-over value later in life, in job situations, in consumer knowledge, or possibly in home maintenance. Vocational Building Trades allows students to explore twenty areas of pre-apprenticeship training for those considering construction as a career. Craftsmanship is not dead; it just must be taught and honored.

The Industrial Arts strand under the Technical-Vocational-Livelihood track provides students with the necessary knowledge and skills for employment. These include technical and manual skills in:

#### **1. Construction Sector**

- Construction Painting
- Furniture Making
- Carpentry
- Masonry
- Tile Setting
- Plumbing

## 2. Electrical and Electronic Sector

- Electrical Installation and Maintenance
- Electric Power Distribution Line Construction
- Transmission Line Installation and Maintenance
- Electronic Products Assembly and Servicing
- Mechatronics Servicing

#### 3. Heating, Ventilation, Air Conditioning and Refrigeration

- Domestic Refrigeration and Air-conditioning Servicing
- 4. Metals and

#### **Engineering Sector**

- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Shielded Metal Arc Welding
- **Transportation Sector** 
  - Automotive Servicing
  - Motorcycle/Small Engine Servicing
  - Driving

Finishing a course in the Industrial Arts strand can give you requisites for Certificates of Competency and National Certificates on each subject if you pass the assessments from TESDA. Earning these certificates is essential, especially when looking for career opportunities in the electronics and trade industries.

#### Answer the following:

**Directions:** Given the Job Opportunities, identify what area they belong to.

Source: https://cxotoday.com/cxobytes/empowering-women-inthe-indian-blue-collarworkforce-strategies-forgender-equality/

## Answer key:

- Carpenter
- Electrician
- Automotive Technician/Automotive Mechanic

5. Automotives and Land

an inventor some	d by using different	Arts strand ca	U U	5. Tile Setter 9 you dream of becoming ch that dream! But what	Answer key: 1. Construction Sector 2. Metals and Engineering 3 Heating, Ventilation, and Air conditioning 4. Electrical and Electronic Sector 5. On the sector
	-			èrent areas in Industrial 1 <b>plish.)</b>	5. Construction Sector The teacher will ask the student to make a brochure promoting different areas in Industrial Arts.
SUBTOPIC 3: Indus	strial Arts Strand S	pecializatior	IS		Note: You may give other
1. Explicitation Career choice	e involves some of the	e most import	ant decisions	of a person's life. It does	activities such as poster making, infographics, or infomercials.
much of his happ no basis in educa period, and indu decisions and ena following is from a Industrial arts within technology values of such occ	iness. A decision as i ation. Adequate caree astrial arts and care abling them to be ma an article on career e s provide an orientation. They acquaint the s cupations and help h	mportant as the choice demander er education de rationally. ' ducation in The on to how peop tudent with the im see possible	his should not nds a series of have a vital of The ne Dallas Time ple earn their li ne nature, qual le opportunitie	ntly, his style of life and be left to chance or have choices extending over a role in facilitating these s Herald. velihoods in occupations ifications, purposes, and s therein. Industrial arts industrial occupations.	V. Synthesis/Extended Practice/Differentiation Areas where printers are unavailable, encourage learners to use cutout or calligraphy. If no cutouts are available; learners may draw
The industria society. Career e process. It involve	al arts activities aim education plays an e	to give the stu qually import	idents a back ant role in th	ground in our industrial e student's educational s him to become a better-	Play a video clip of success stories of Filipinos who graduated from TESDA.
helpful for indust welding, and ma	try jobs, including ca ny more. This strar	rpentry, auto d aims to pr	motive services oduce field ex	cal skills. These skills are s, electronics, plumbing, sperts skilled in various ndustrial Arts strand.	Video link: TESDA Official. (2023). Narito ang kwento ni Anna Liza at kung paano sya natulungan ng RCEF. <i>YouTube</i> . <u>https://www.youtube.com/wa</u> <u>tch?v=290GET_U3I8</u>
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The Technical Education and Skills Developmen agency that manages and supervises technical education the Philippines. It was created by Republic Act 779 Education and Skills Development Act of 1994." T technical education and skills development training necessary skills for employment and livelihood oppor Industrial Arts strand specializations: • Automotive Servicing (NC I, NC II) • Carpentry (NC II, NCIII) • Construction Painting (NC II) • Driving (NC II) • Electric Power Distribution Line Construction (NC II) • Electrical Installation and Maintenance (NC II) • Furniture Making (Finishing) (NC II) • Instrumentation and Control Servicing (NC II)	Note: You may explore another related video. Play a video clip about the benefits of the TESDA Course. GMA Integrated News. (2022). TESDA courses, in demand lalo sa mga nais mag-abroad   24 Ora <i>uTube</i> . https://www.youtube.com/wa tch?v=zy1vBbVAtOs (Note: You may explore another related video.)	
Transmission Line Installation and		
<ul> <li>2. Worked Example Guide Questions: <ol> <li>What does TESDA stand for?</li> <li>What i</li> </ol> </li> <li>3. Lesson Activity: Asking Questions, Finding Answer! Directions: Answer the following questions. Write your answer on the sheet provided. (Use this template provided.)</li></ul>	s the role of TESDA in the country? Ask and Answer Questions Ask and Answer Questions Country Coun	Answers: 1. The primary role of Industrial Arts education is to expose students to various industrial and engineering technologies that improve their understanding of the industrial and engineered world. 2. Industrial arts, such as woodworking or metalworking, can contribute to personal development by fostering creativity, problem-solving skills and manual devterity. In
	Question         Answer:           Why are industrial arts important in the Philippines?         Industrial arts are important in the Philippines because they allow people to the data want, are dubare, county, and unique talents.	skills, and manual dexterity. In society, they promote innovation, craftsmanship, and

# Day 4 SUBTOPIC 4: Career and Business Opportunities in Industrial Arts

## 1. Explicitation: Game

**Directions:** Guess The Job from The Emoji. Based on the given emojis, guess the job shown in the presentation.

GUIESS THE JOB!





Their main duties Clue: developing include new products for companies or individuals, maintaining current products to enhance other fluids in homes and use, and designing new machines to improve an organization's efficiency.

**Clue**: They install and repair pipes and fixtures that carry water, gas, or businesses.

aness the **Job** 



**Clue:** Perform basic care and maintenance, including changing oil, checking fluid levels, and rotating tires. Repair or replace worn parts, such as brake pads, wheel bearings, and sensors. Perform repairs to manufacturer and customer specifications. Explain automotive problems and repairs to clients.

Present and discuss the different career and job opportunities in Industrial Arts with the class.

Companies worldwide seek artists who can create furniture and decorations from wood, metal, plastic, and other industrial materials. These professionals may specialize in automotive design, industrial wall decor, industrial design research, or other related fields. If you're passionate about art and engineering, you can turn your interests into a rewarding career. The first step is to explore your job options and choose a degree program that fits your professional goals.

## A. Construction Sector

Construction Painter

A skilled professional applies paint, coatings, and finishes to various surfaces in construction projects.



the production of functional objects.

3. Industrial arts are essential in the Philippines because they allow people to show their talents, and they may also be used to introduce our culture, country, and unique talents

The teacher will let the students answer the job opportunities based on the given emojis. After guessing the job, ask the student to explain the job.

Planetworm Riddles & Tests. (2020, December 15). Can you guess the job / profession from the emojis? | Emoji Guess Game, YouTube. https://www.youtube.com/wa

tch?v=wipXsbFTX-U

Note: Please emphasize that Industrial arts programs are not solely confined to junior and senior high schools with the sole aim of training technicians; they also serve as a viable pathway for students aspiring to pursue engineering careers.

## Answer key:

- 1. Engineer
- 2. Plumber

· · · · · · · · · · · · · · · · · · ·				
		Apply paint, stain, and coatings to walls, ceilings, buildings, large machinery and equipment, bridges, and other structures.	standing-and-posing-holding-color-brush- with-color-bucket-and-painting-with-stairs	3. Mechanic The teacher should cite realistic examples of the job opportunities.
	Carpenter	A skilled craftsperson who performs carpentry. Carpenters work with wood to construct, install, and maintain buildings, furniture, and other objects.	Source: https://www.vecteezy.com/vector- art/3672789-happy-cute-beautiful-kid-boy- and-girl-carpenter-construction-worker- standing-and-posing-holding-tools-cutter- handsaw-with-wooden-board	opportunities.
	Mason	A mason is a skilled tradesperson who builds structures with brick, stone, concrete blocks, and other masonry materials.	Source: Free Stock Photos, PNGs, Templates & Mockups   rawpixel. (n.d.). Rawpixel. https://www.rawpixel.com/search?page=1& path=_topics&similar=6510007&sort=curate d	
	Tile Setter	They lay and set tiles to create decorative wall, mural, and floor designs. Cut and fitted tiles around obstacles and openings using hand and power cutting tools and prepared, measured, and marked surfaces to be covered.	Source: Ribeiro, H. (2020, May 31). Professional worker laying tile repair work vector image on VectorStock. Pinterest. https://in.pinterest.com/pin/660973682802329118	
	Plumber	A tradesperson who specializes in installing and maintaining systems used for potable (drinking) water, sewage, and drainage in plumbing systems.	Source:https://www.vecteezy.com/vector- art/6461875-cute-boy-and-girl-technician-character- holding-spanner-and-screwdriver-vector-cartoon	
	B. Electrical and	Electronics Sector		
	Wiring Electrician	A wiring electrician is responsible for installing, repairing, and maintaining electrical wiring systems in various settings, such as residential, commercial, and industrial buildings.	Wiring Electrical Connection - Vector Image. (n.d.). Www.wannapik.com. Retrieved February 26, 2024, from https://www.wannapik.com/vectors/1173	

Mechatronics Technician	Installed, configured, and tested the industry's automated machinery and computer- controlled mechanical systems.	Source: Operator maintenance: over 8,749 Royalty- Free Licensable stock Illustrations & Drawings   Shutterstock. (n.d.). Shutterstock. https://www.shutterstock.com/search/operator- maintenance?image twpe=illustration?name??	
Electronic Technician	An electronic technician is responsible for installing, maintaining, repairing, and troubleshooting electronic equipment and systems.	Source:https://www.pinterest.com/pin/63 7751997233436357/	
C. Automotives a	nd Land Transportation Sector		
Automotive Mechanic	Perform basic care and maintenance, including changing oil, checking fluid levels, and rotating tires. Repair or replace worn parts, such as brake pads, wheel bearings, and sensors. Perform repairs to manufacturer and customer specifications. Explain automotive problems and repairs to clients.	Source: https://www.istockphoto.com/vecto r/auto-mechanic-man-and-woman-and- tires-gm1461236323-495247783	
Automotive Service Technician	The main job is to diagnose and repair vehicle problems. Advise customers on work performance and working closely with other mechanics.	Source: 1,300+ Mechanic Customer Stock Illustrations, Royalty-Free Vector Graphics & Clip Art - iStock. (n.d.). Www.istockphoto.com/illustrations /mechanic-customer	
Driver	To safely transport cargo or passengers from one location to another, they must follow traffic laws and correctly route themselves, ensuring enough gas	Source: Illustration Man Driving delivery truck Stock Vector (Royalty Free) 261120866   Shutterstock. (n.d.). Shutterstock. https://www.shutterstock.com/image- yector/illustration-man-driving-delivery- truck-261120866	

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		is always in the tank for their destination.		
	D. Heating, Ventil	ation, Air Conditioning and Refrig	eration	
	Refrigerator and aircon Technician	Installed, maintained, repaired, and overhauled residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems, and combined heating, ventilation, and cooling systems.	Source: MariaGisina. (2023, April 6). Repairman fixing air	
	E. Metals and Eng	ineering Sector		
	Welder	A welder is a skilled tradesperson specializing in joining materials, typically metals, through welding.	Source: Tambus, A. (2018, June 18). Cartoon Welder Clipart Transparent Background, Cartoon Welders, Cartoon Clipart, Red Hat, Electric Welder PNG Image For Free Download. Pinterest. https://in.pinterest.com/pin/cartoon-welders-cartoon- clipart-red-hat-electric-welder-png-image-for-free- download-e899395017107053956/	Lesson Activity:
	W. 1.15			(A.) The teacher will let the
2.	• Ask the students	s to share about the jobs or professions	s that align with Industrial Arts	students answer the activity in their notebooks.
3.		heir dos and don'ts about the job.	s that angle with industrial Arts.	<b>(B.) Answer Key:</b> 1. C 2. A
	<b>A. Directions</b> : Bein opportunities the on the job. You i	ng a young professional, you need to at you chose and present them with the need notebooks. guided by the rubric provided <b>See Lear</b>	e job description. Dress up based	3. B 4. E 5. D
	<b>B. Directions:</b> Mat	ch the Job Description in column A to answer in the space provided. <b>See Lea</b>	the Job Title in column B. Write	Let the students freely express their selves on the reflection. This will help us with our future activities.

2.1	Y 4 Learners' Takeaways 3-2-1 Game 3 Things I learned 2 New words I encounter 1 Question I have in mind Reflection on Learning Important questions to reflect on. 1. Why are industrial arts important in the Philippines? 2. What role do Industrial Arts play in our modern society?	The teacher will ask the students about their takeaways from the discussions. The teacher may also ask about the importance of the topics/lessons in daily life.
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IV. EVALUATING LEARN	NOTES TO TEACHERS	
Learning	<ul> <li>Formative Assessment         <ul> <li>Identification             Directions: Answer the following questions using the words found in the box.</li> </ul> </li> <li>Refrigerator and Aircon Technician TESDA DOH Industrial Arts         <ul> <li>Tile Setter</li> <li>Construction Painter</li> <li>DILG</li> </ul> </li> <li>Industrial arts pairing, and overhauling residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems, and combined heating, ventilation, and cooling systems.</li> <li>They are the ones who lay and set tiles to create decorative walls, murals, and floor designs.</li> <li>It is a subject taught in elementary and secondary schools that aims to develop manual skills and familiarity with tools and machines.</li> <li>They apply paint, stain, and coatings to walls, ceilings, buildings, large machinery and equipment, bridges, and other structures.</li> <li>The government agency is tasked to manage and supervise technical education and skills development (TESD) in the Philippines</li> </ul>	<ul> <li>Answer Key:</li> <li>1. Refrigerator and Airon Mechanic</li> <li>2. Tile Setter</li> <li>3. Industrial Arts</li> <li>4. Construction Painter</li> <li>5. TESDA</li> </ul>

	Directions: Reflect on (15 points each) "Talent is cheaper ti t 	"Talent is cheaper than table salt. What separates the talented individual from the successful one is a lot of hard work:			
B. Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	The teacher may take note of some observations related to the effective practices and problems	
	strategies explored			encountered after utilizing the different strategies, materials	
	materials used			used, learner engagement and other related stuff.	
	learner engagement/ interaction			Teachers may also suggest ways to improve the different	
	others			activities explored/ lesson exemplar.	
C. Teacher's Reflection	<ul> <li>Reflection guide or prompt can be on:</li> <li><u>principles behind the teaching</u> What principles and beliefs informed my lesson? Why did I teach the lesson the way I did?</li> <li><u>students</u> What roles did my students play in my lesson? What did my students learn? How did they learn?</li> <li><u>ways forward</u> What could I have done differently? What can I explore in the next lesson?</li> </ul>			Teacher's reflection in every lesson conducted/ facilitated is essential and necessary to improve practice. You may also consider this as an input for the LAC/Collab sessions.	