Academic English UK

The Fourth Industrial Revolution
Summary Writing

Student

Two types of lesson

Lesson#1: [Easy] **★★★**★★ [B2/C1]
1. Predict the content of the text. Write down key terms & ideas.
2. Read the text & check words & meanings with a dictionary.
3. Identify the key points & support & complete the **outline.**
4. Write the summary – only one paragraph (200-250 words).
5. Check key points with the **completed outline** & **model answer**.
6. Answer critical thinking questions & check suggested answers.

Lesson #2: [Hard] **★★★★**★ [C1]
1. Read the text – no dictionary.
2. Identify the key points and support.
3. Write the summary – only one paragraph (200-250 words).
4. Check key points with the **completed outline** & **model answer**.
5. Answer critical thinking questions & check suggested answers.

Teacher

Two types of lesson

Lesson#1: [easy] **★★★**★★ [B2/C1]
1. Distribute text a week /day before the test. Students read, check vocabulary & meanings.
2. Test day – distribute a **new copy of text** and **summary question.**
3. Set 1 hour to read the text, take notes and write a one-paragraph summary of 200-250 words.
4. Feedback[1]: take in and mark [use correction code*].
5. Feedback[2]: distribute **completed outline** & **model answer**.
6. Summary marking: Should contain at least 4 main ideas with support – see summary key points.
7. Extra: Critical thinking questions / group discussion (30 minutes).

Lesson #2: [hard] **★★★★**★ [C1]
1. Set 1 hour to read the **text** and write a one-paragraph summary of 200-250 words.
3. Feedback[1]: take in and mark [use correction code*].
4. Feedback[2]: distribute **completed outline** & **model answer.**
5. Summary Marking: Should contain at least 4 main ideas with support – see summary key points.
6. Extra: Answer critical thinking questions / group discussion (30 minutes).

Correction code*: www.academic-englishuk/error-correction

The 4ᵗʰ Industrial Revolution

J Greenwood (2020)

Many experts believe that the world is currently undergoing a major change: the fourth industrial revolution (Industry 4.0). ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ Schwab (2016), is the ▓▓▓▓▓▓▓▓▓▓▓▓▓ blurring the distinctions between the physical, digital and biological domains. An article from NICVA (2019: 4) ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ technologies to perform tasks previously carried out by humans, ranging from piloting vehicles to '▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ and law". This wide-ranging description emphasises the impact of technology on people and the planet, and its increasing ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. If the fourth industrial revolution is having such a profound impact on life as we know it, it is important to consider ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ revolutions.

Shank (2016) characterised the first as mechanisation: machines replacing animals and manual labour; ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. Shank then identified the second as the mass production revolution, where mass-manufacturing using machines and new processes ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. Shank finally recognised the third industrial revolution as occurring in the second half of the 20ᵗʰ century into the first half of the 21ˢᵗ century, where globalisation ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ by digital technology and the World Wide Web became ubiquitous. These definitions allow us to understand ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓, is what impact the next industrial revolution will have on industry, the workforce and life.

It seems clear that industry 4.0 will bring opportunities. Xu et al. (2018) claim that a major shift that ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ will continue in the fourth: the dramatic shift in economies towards the knowledge worker. Xu et al. (2018) ▓▓▓▓▓▓▓▓▓▓▓▓▓▓ two ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ and services were provided by the body; for example, food production, agriculture and the automotive industry. This meant a strong and healthy body was often a ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. However, the increased capabilities of machines means that knowledge is now the most important asset a person can possess. This ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ for people with disabilities and less physically capable people as well as reducing the gender ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ asset for a large proportion of jobs. Opportunities may also lie in education. An article in the ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ (2018) claims that as education relies on forming complex relationships with a number of students, ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. ▓▓▓▓▓▓▓▓▓▓▓▓▓▓ technology to become more effective in their role.

There will also be challenges brought on by industry 4.0. Lee et al. (2019) claim that whilst ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓, the increased effectiveness technology brings might mean less employees are needed to complete ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ in educators losing their jobs, it may result in less opportunities for graduates entering the job market. ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ 4.0 is in ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓, regarding knowledge being the most important aspect for a worker to possess. Anderson (2012) highlights that the reduction of ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ due to new ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ platforms, speedy worldwide delivery and even the ability to create inventions quickly using ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ such as

entrepreneurs ██████████████████████████; however, he also points out that in order to be a knowledge worker, a person must have access ███████████████████ ████████████████████████████ labour, and a shift towards the need for knowledge, could lead to workers with limited access ██████████████████ .

Industry 4.0 will impact different sectors in diverse ways. NICVA (2019) claims that sectors that involve ████████████████████████████, such ███████████████████████ and other personal services will see an increase in demand for workers. Conversely, the ████████████████████████████████ that require repetitive physical action may need less workers, as technology becomes more █████████████████████████████████ of the ██████████████████████████ is still in progress. Schwab (2016) argues that the responsibility of shaping the future lies with governments and policy makers. Schwab warns of a robotised humanity and a future ██████████████████████████████. Schwab claims that people must be prioritised over profits, so that creativity, empathy and all the desirable aspects of the ███████████████████████████ It is entirely possible that industry 4.0 could have a positive impact on societies around the world, █████████████████████ proportion ███████████████████████ efficiency from technology. It is up to governments, large corporations and even individuals ██████████████████████ .

References

Anderson, C. (2012). *Makers: The New Industrial Revolution*. New York: Crown Publishing.

AOSIS. (2018) ██████████████████████, South African Journal of Science, ███ (5-6) p. 1-10

Lee, Y., Moon, G.G. and Kwon, Y (2019) ████████████████████████ *Industrial Revolution: Lessons and Implications for Korea's Higher Education Policy,* International ██████████████████████████

NICVA. (2019) *The Impacts of the Fourth Industrial Revolution on Jobs and the Future of the Third Sector* [Online] [Accessed 15th April 2020] https://www.nicva.org/sites/default/files/d7content/the_4th_industrial_revolution.pdf

Schwab, K. (2016) *The Fourth Industrial Revolution:* ████████████████████████ [Online] [Accessed 15th April 2020] https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution.pdf

Shank, P. (2016) *2025:* ████████████████████████*?* Association for Talent Development [Online] [Accessed 15th April 2020] https://www.td.org/insights/2025-how-will-your-job-change

Xu, M. David, J.M and Kim, S.H. (2018) *The Fourth Industrial Revolution: Opportunities and Challenges,* ████████████████████████

Outline: summary note-taking

Take notes on the key points of the article.

1.Main idea:
Support:

2. Main idea:
Support:

3. Main idea:
Support:

4. Main idea:
Support:

5. Main idea:
Support:

Summary Key Points ANSWERS

A good summary should have at least 4 main ideas and 1-2 points of support for each main idea.

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1. Main idea: Background of the fourth industrial revolution

Support:
- The fourth industrial revolution (Industry 4.0) ░░░░░░░░░░░░░░ (Greenwood, 2020).
- ░░░░░░░░░░░░░░░░░░░░░░░░ (Schwab, 2016).
- Automation (NICVA, 2019) = tasks completed with min. hum. interven.
- To understand industry ░░░░░░░░░░░░░░░░░░░░░░░ (Greenwood, 2020).

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2. Main idea: The first three ░░░░░░░░░░░░░░░░░░░░░░░

Support:
- The first revolution: mechanisation - ░░░░░░░░░░░░░░░░░░░░░░░.
- The second: mass production - new machines & processes revolutionized manufacturing.
- The third: ░░░░░░░░░░░░░░░░░░ (Shank, 2016).
- The fourth: impact on business & indivs – unknown (░░░░░░░░░░░░░░░).

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3. Main idea: Industry 4.0 – ░░░░░░░░░░░░░░░░░░░░

Support:
- ░░░░░░░░░░░░░░░░░░░░░░ worker (░░░░░░░░░░░░░░░░░░).
- More opps. for disabled & less physically capable people.
- More opps. in edu. as staff will work with ░░░░░░░░░░░░░ their effectiveness ░░░░░░░░░░░░░░░

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4. Main idea: Industry 4.0 – ░░░░░░░░░░░░░░░░░░░░

Support:
- As tech. ░░░░░░░░░░░░░░░░░░ Lee et al., 2019).
- Less opps for graduates (Greenwood, 2020).
- Knowledge-░░░░░░░░░░░░░░░ = indivs with ░░░░░░░░ Greenwood, 2020).

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5. Main idea: Changes to employment structures

Support:
- Industry 4.0 – ░░░░░░░░░░░░░░░░░░ (NICVA, 2019).
- Sectors = repetitive physical action will decrease.
- Sectors = ░░░░░░░░░░░░░░░░░
- Future = uncertain - industry 4.0 = still developing (Greenwood, 2020).
- ░░░░░░░░░ makers ░░░░░░░░░░░░░░░░ (Schwab, 2016).

Summary

Task: Write a 200-250 word summary on the key elements of the text.

Word Count: _____

The Fourth Industrial Revolution - Model Summary

According to Greenwood (2020), Industry 4.0 is changing people's lives in that the digital and real ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ (Schwab, 2016). One change is automation (NICVA, 2019) where tasks are ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. Greenwood ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ understand industry 4.0, the first three revolutions need to be revisited. As Shank (2016) explains, ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ manual labour and ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. The second was mass production where new machines and processes revolutionized ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ development of digital systems and computerization. The fourth, as pointed out by Xue et al. (2018), ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓. This could result in more job opportunities, especially in education, as AI ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓). However, Lee et al. (2019) warn of a reduction in labour due to the efficiency of technology, and, ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ on employment structures with sectors that require repetitive physical action ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓-forming relationships ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ Schwab (2016) argues that it is policy makers and governments who are responsible for how the future unfolds.

228 words

Critical Thinking Questions

i) What's the stance of the author? What is the evidence for this?

[2 points]

ii) Is this a credible article? Yes /no – why?

[2 points]

iii) Highlight four ideas in the text you would use for an essay on 'How will industry 4.0 impact peoples' lives?

[4 points]

iv) Highlight two areas in the text that you question, disagree with or lack evidence

[2 points]

Critical Thinking Questions

i) What's the stance of the author? What is the evidence for this?

The author believes that industry 4.0 could improve most people's lives in terms of job opportunities and more free time; however, he is concerned about the people who do not have access to…

[2 points]

ii) Is this a credible article? Yes /no – why?

Yes, it is credible with a good range of

[2 points]

iii) Highlight four ideas in the text you would use for an essay on 'How will industry 4.0 impact peoples' lives?'

P1: Definition: "The fusion of technologies blurring the distinctions between the physical, digital and biological domains" (Schwab, 2016).
P1: "Taking automation to new levels, […] and using…

ALL ANSWERS ARE INCLUDED IN PAID VERSION…

[4 points]

iv) Highlight two areas in the text that you question, disagree with or lack evidence

P1: Many experts believe that the world is currently undergoing a major change: the fourth industrial revolution (industry 4.0). Aren't we almost at the end of industry 4.0? Aren't we going into the 5th industrial revolution (industry 5.0 or 5IR)?
P1: Using technologies to perform tasks previously carried out by humans……'rules-based' jobs in areas such as accounting and law' How does this work in law?...

ALL ANSWERS ARE INCLUDED IN PAID VERSION…

[Any 2 of these – this is obviously subjective so accept any credible student answer].

[2 points]