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4.2.1 Tariffs

An Introduction to Protectionism

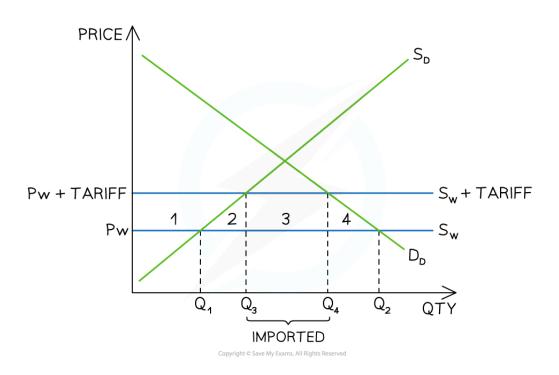
- Free trade aims to maximise global output through **national specialisation**
- However, there are numerous **reasons** why countries would seek to **limit free trade** in order to protect themselves from certain outcomes
- This is called protectionism and may take the form of import tariffs, export subsidies, the use of quotas or embargoes



Your notes

An Explanation of Tariffs

- The most commonly used forms of trade protectionism include tariffs, subsidies, quotas and administrative barriers
- A tariff is a tax on imported goods/services (customs duty)
 - The tax raises the selling price of the good/service within the country
- The higher price allows more inefficient domestic firms to increase their production and market share
 - More efficient global competitors reduce their output due to the tariff
 - With increased domestic output, employment may increase



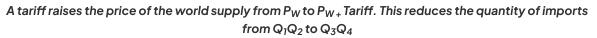


Diagram Analysis

- World supply (S_W) is considered to be infinite and this supply curve is included with the domestic demand (D_D) and supply (S_D) curves
- The **pre-tariff** market equilibrium is seen at P_wQ₂
 - Domestic firms supply up to Q_1 at a price of P_w
 - Foreign firms supply the difference equal to Q₁Q₂ at a price of P_w (imports)

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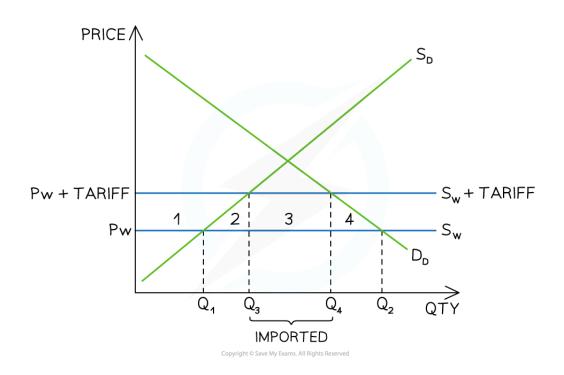
- After the tariff is imposed, the world price increases from Pw to Pw+ tariff
- The **new market equilibrium** is seen at P_w+tariff and Q₄
 - Following the law of demand, the quantity demanded contracts from Q₂ to Q₄
 - Following the law of supply, the **quantity supplied** by domestic firms **extends** from Q₁ to Q₃
 - The level of **imports is reduced** from Q₁Q₂ to Q₃Q₄



An Evaluation of Tariffs

• The best way to consider the impact of a tariff on stakeholders is to explain it using a diagram





A tariff impacts domestic producers, consumers, foreign producers and the government

Stakeholder	Explanation of Impact		
Domestic Producers	 Before the tariff domestic producers produced output equal to OQ₁ and their revenue was equal to P_w x Q₁ After the tariff was imposed domestic producers produced OQ₃ and their revenue was equal to P_w+tariff x Q₃ Domestic producer surplus has increased by area 1 		
Foreign Producers	 Before the tariff foreign producers sold output equal to Q1Q2 and their revenue was equal to Pw x (Q2 - Q1) After the tariff was imposed foreign producers sold output equal to Q3Q4 and their revenue was equal to Pw x (Q4 - Q3) Foreign producer surplus has decreased by the areas underneath 2 and 4 		

The Impact of Tariffs on Stakeholders

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Your notes

Domestic Consumers	 Before the tariff domestic consumers consumed Q₂ products at a price of P_w After the tariff domestic consumers consumed fewer products (Q₄) at a higher price of P_w+tariff Domestic consumer surplus has decreased by areas 1,2 3 and 4 Some consumers have been priced out of the market (contraction of quantity demanded from Q₂ → Q₄
The Government	 After the tariff is imposed the government receives tax revenue equal to ((P_w+tariff) - P_w) x (Q₄-Q₃) This is equal to area 3
Downstream Producers	 Other producers who rely on the imported product as a raw material in their own production process, now have to pay more for it as prices are higher This increases their costs of production They may have to reduce output which could impact unemployment levels and government tax receipts in their industry
Society (welfare loss)	 Less efficient domestic firms are now producing at the expense of more efficient foreign producers - there is a welfare loss equal to area 2 Consumers are frustrated with the higher prices and there is no longer allocative efficiency - there is a welfare loss equal to area 2 The net welfare loss is equal to areas 2 and 4

Examiner Tip

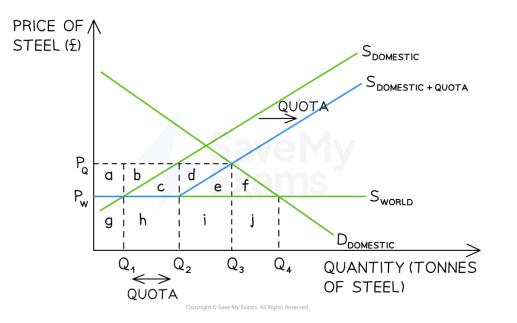
Tariffs are one of the most frequently examined sub-topics in Paper 2. When evaluating their use, consider how many jobs are protected (or created) in the industry that is targeted by the tariff as opposed to jobs which may be lost in multiple downstream industries due to higher prices.

For example, a tariff on solar panel imports protects a few firms who manufacture solar panels. However, the higher prices can cause a significant fall in the quantity demanded leading to the possible loss of thousands of jobs for installation experts.

4.2.2 Quotas

An Explanation of Quotas

- A quota is a physical limit on imports e.g. in June 2022 the UK extended its quota on steel imports for a further two years in order to protect employment in the domestic steel industry
- This limit is usually set **below the free market** level of imports
 - As cheaper imports are limited, a quota raises the market price
 - As cheaper imports are limited a quota may create shortages
- Some domestic firms benefit as they are able to **supply more** due to the lower level of imports
 - This may increase the level of employment for domestic firms



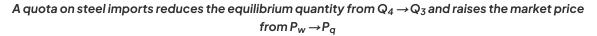


Diagram Analysis

- The initial **market equilibrium** is at P_wQ₄
 - Domestic firms supply up to Q₁ and Q₄-Q₁ is imported
- To support the domestic steel industry, the UK government **limits the amount of imports** by instituting a quota

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- The domestic supply curve (S_d) shifts to the right by the size of the quota (Q₂-Q₁)
- Where this curve crosses the domestic demand curve (D_d) it forms the new market equilibrium at P_qQ₃
- The quota has raised prices and reduced total output from Q4 \rightarrow Q3
- Domestic producers supply up to Q1 PLUS Q3-Q2
- Foreign producers supply Q₂-Q₁ (the quota)
- Once governments announce the quota level, the market automatically prices in the reduced output
 - This means that each unit of output is sold at the quota price (Pq)
 - Both domestic producers and foreign producers receive a higher price for their steel

😧 Examiner Tip

One of the main reasons that the quota diagram is confusing is because it appears that domestic producers supply up to Q_1 , then take a holiday while the imports flood in until Q_2 is reached, after which they continue to supply up until Q_3 . This is not how it works in reality.

- 1. The government announces the quota for the next 12 months
- 2. The market factors in the reduced supply and a new market price is established
- 3. Even while domestic firms are selling their products, importers continue to import the foreign product for as long as there i any quota allowance left
- 4. The government keeps track of the level of imports and once the quota level is reached, they will not allow any more imports of that product to enter the country



An Evaluation of Quotas

 Quotas can be beneficial in that they are a less confrontational method of protectionism than tariffs as there is less of a penalty for trading partners

Your notes

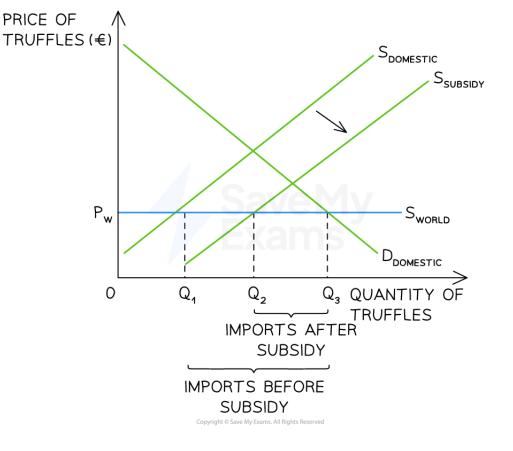
Stakeholder	Explanation of Impact			
Domestic Producers	 Before the quota, the domestic revenue was area g After the quota, domestic revenue is greater covering areas a+g+d+e+i 			
Foreign Producers	 Before the quota, foreign producer revenue was area h+i+j After the quota, foreign producer revenue is less covering areas b+c+h Under the quota, they receive a higher price for all units sold at P_q but they sell fewer products 			
Domestic Consumers	 Consumers pay a higher price (P_q) than previously (P_w) which reduces their disposable income Some consumers leave the market as they cannot afford the higher price (contraction from Q₄→Q₃) 			
The Government	 They gain some favour with the industry they are protecting This policy may create jobs in the industry being protected and reduce the level of unemployment benefits required The government does not receive tax revenue as they do when using a tariff 			
Downstream Producers	 Other producers who rely on the imported product as a raw material in their own production process, now have to pay more for it as prices are higher This increases their costs of production They may have to reduce output which could impact unemployment levels and government tax receipts in their industry 			
Efficiency	 Global efficiency has worsened as less efficient domestic producers are producing at the expense of more efficient foreign producers (area e+f) 			

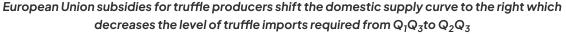
The Impact of Quotas on Stakeholders

4.2.3 Export Subsidies

An Explanation of Export Subsidies

- Both subsidies and export subsidies lower the cost of production for **domestic firms**
 - They can increase output and **lower prices**
 - With lower prices their goods/services are more competitive internationally
 - If firms are able to meet all of the domestic demand (D_d) then the excess supply may be exported
 - Otherwise, the level of imports will decrease
 - The increased output may result in increased domestic employment
- Following the 2nd World War, the **European Union** subsidised food production and this has continued ever since
 - Once food security had been established within Europe, countries were able to start exporting the excess supply that subsidies generate





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Diagram Analysis

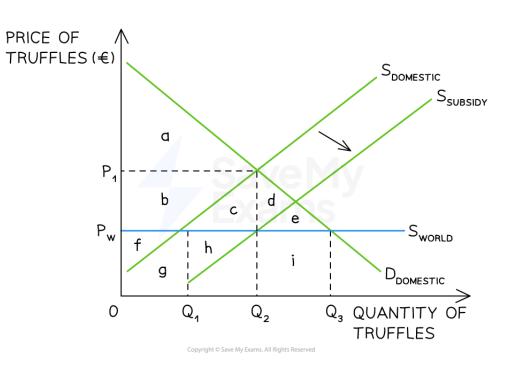
- The domestic market for truffles in the EU was initially in equilibrium at P_wQ_3
 - Domestic firms supplied up to Q1, while Q2-Q1 was imported into the EU
- The implementation of the subsidy lowered firms costs of production, shifting the domestic supply curve from S_d to S_{d+subsidy}
 - Domestic firms increase output and market share from $Q_1\!\!\rightarrow\!\!Q_2$
 - Imports reduce from $Q_1Q_3 \rightarrow Q_2Q_3$



An Evaluation of Subsidies

• An evaluation of the **effectiveness of the use of subsidies** as a form of protectionism is best done by considering the impact on all of the relevant stakeholders





The effect on different stakeholders can be considered by analysing each area of the international subsidy diagram

 The stakeholders affected are domestic and foreign producers, consumers, government, and society (welfare)

Stakeholder	Explanation
Domestic Producers	 Decreases costs of production Increases output from Q₁ → Q₂ Revenue before subsidy was f+g Revenue after subsidy is b+c+f+g+h Increases international competitiveness

An Evaluation of the use of Subsidies to Protect Domestic Firms

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Foreign Producers	 Makes it harder for them to compete with domestic firms Their exports reduce from Q₃-Q₁ → Q₃-Q₂ 	Your notes
	 Revenue for foreign firms before the subsidy was h+i 	
	 Revenue after the subsidy is only i 	
Consumers	 Consumers already benefitted from the lower world price and receive no further benefit 	
Government	 This costs the government the amount of the subsidy - area b+c There is an opportunity cost associated with every subsidy provided 	
Society (Welfare)	 There is a welfare loss (area c) as more inefficient domestic producers are now producing at the expense of more efficient global producers 	

Q Examiner Tip

When evaluating the use of subsidies in essay responses, it is worthwhile considering both the length of time that the subsidy has been in place, along with the size of the subsidy.

If the subsidy is large and has been in place for a long time, the industry is likely to be a global monopoly such as the USA cotton industry. Their price is effectively the world price.

This is one reason why the WTO aims to limit export subsidies. They put small-scale farmers in developing nations out of business, often decimating the industry and thus increasing unemployment. Compared to fifty years ago, very few African countries now produce cotton. This is entirely down to the size and longevity of the subsidies in the USA.

4.2.4 Administrative Barriers

An Explanation of Administrative Barriers

- There are many strategies that can be used to create barriers to trade using less obvious methods than tariffs, quotas and subsidies
 - Health and safety regulations e.g. in 2017 the EU put a new health regulation in place regarding the permitted level of *aflotoxins* in nuts. *Aflotoxin* levels are naturally higher in southern hemisphere countries and it effectively blocked the import of southern hemisphere nuts
 - **Product specifications** e.g. Canada specified that all jam imported into Canada needed to be in a certain size of the jar. Many countries do not usually manufacture jars in the required size
 - Environmental regulations e.g. in November 2021 new regulations were put in place in the EU and the USA to limit the amount of imports of 'dirty steel' predominantly this is steel produced using coal-fired power stations which are prevalent in China
 - **Product labelling** can be expensive for firms to apply and may limit their desire to sell into certain markets
 - Inefficient administrative systems e.g. many border crossings in Africa still require physical paper copies to be submitted at each crossing with some companies claiming they have to provide in excess of 10,000 documents for a single journey

