

# EDI 204 Outbound – Minimum Requirements for Segments and Elements

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>
	005	ISA	Interchange Control Header	O	1	
	008	GS	Functional Group Header	O	1	
M	010	ST	Transaction Set Header	M	1	
M	020	B2	Beginning Segment for Shipment Information Transaction	M	1	
M	030	B2A	Set Purpose	M	1	
	080	L11	Business Instructions and Reference Number	O	50	
	130	NTE	Note/Special Instruction	O	10	
LOOP ID - 0100						5
	140	N1	Name	O	1	
	160	N3	Address Information	O	2	
	170	N4	Geographic Location	O	1	
LOOP ID - 0200						10
	200	N7	Equipment Details	O	1	
	210	M7	Seal Numbers	O	2	

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>
LOOP ID - 0300						999
M	010	S5	Stop-off Details	M	1	
	020	L11	Business Instructions and Reference Number	O	50	
	030	G62	Date/Time	O	2	
	065	NTE	Note/Special Instruction	O	20	
LOOP ID - 0320						99
	130	L5	Description, Marks and Numbers	O	1	
LOOP ID - 0325						99
	140	G61	Contact	O	1	
LOOP ID - 0330						25
	143	LH1	Hazardous Identification Information	O	1	
	144	LH2	Hazardous Classification Information	O	4	
	145	LH3	Hazardous Material Shipping Name	O	10	
	146	LFH	Freeform Hazardous Material Information	O	20	

## Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>
	010	L3	Total Weight and Charges	O	1	
M	020	SE	Transaction Set Trailer	M	1	
	030	GE	Functional Group Trailer	O	1	
	040	IEA	Interchange Control Trailer	O	1	

**Segment:** **ISA** Interchange Control Header  
**Position:** 005  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ISA01	I01	Authorization Information Qualifier	M ID 2/2
M	ISA02	I02	Authorization Information	M AN 10/10
M	ISA03	I03	Security Information Qualifier	M ID 2/2
M	ISA04	I04	Security Information	M AN 10/10
M	ISA05	I05	Interchange ID Qualifier	M ID 2/2
M	ISA06	I06	Interchange Sender ID	M AN 15/15
M	ISA07	I05	Interchange ID Qualifier	M ID 2/2
M	ISA08	I07	Interchange Receiver ID	M AN 15/15
M	ISA09	I08	Interchange Date	M DT 6/6
M	ISA10	I09	Interchange Time	M TM 4/4
M	ISA11	I10	Interchange Control Standards Identifier	M ID 1/1
M	ISA12	I11	Interchange Control Version Number	M ID 5/5
M	ISA13	I12	Interchange Control Number	M N0 9/9
M	ISA14	I13	Acknowledgment Requested	M ID 1/1
M	ISA15	I14	Usage Indicator	M ID 1/1
M	ISA16	I15	Component Element Separator	M AN 1/1

**Segment:** **GS** Functional Group Header  
**Position:** 008  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

- 1 GS04 is the group date.
- 2 GS05 is the group time.
- 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	GS01	479	Functional Identifier Code	M ID 2/2
M	GS02	142	Application Sender's Code	M AN 2/15
M	GS03	124	Application Receiver's Code	M AN 2/15
M	GS04	373	Date	M DT 8/8
M	GS05	337	Time	M TM 4/8
M	GS06	28	Group Control Number	M N0 1/9
M	GS07	455	Responsible Agency Code	M ID 1/2
M	GS08	480	Version / Release / Industry Identifier Code	M AN 1/12

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
M	ST02	329	Transaction Set Control Number	M AN 4/9

**Segment:** **B2** Beginning Segment for Shipment Information Transaction  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

- 1 B202 contains the Standard Carrier Alpha Code (SCAC) of the carrier that will receive the bill of lading.
- 2 If B211 is used, B206 will indicate the party or parties responsible for payment of the transportation terms identified in B211.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
B201	375	Tariff Service Code	O ID 2/2
B202	140	Standard Carrier Alpha Code	O ID 2/4
B203	154	Standard Point Location Code	O ID 6/9
B204	145	Shipment Identification Number	O AN 1/30
B205	188	Weight Unit Code	O ID 1/1
M B206	146	Shipment Method of Payment	M ID 2/2
B207	147	Shipment Qualifier	O ID 1/1

**Segment:** **B2A** Set Purpose  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	B2A01	353	Transaction Set Purpose Code	M ID 2/2
			02 Add	
			03 Delete	
			04 Change	

**Segment:** **L11** Business Instructions and Reference Number  
**Position:** 080  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 50  
**Syntax Notes:** 1 At least one of L1101 or L1103 is required.  
 2 If either L1101 or L1102 is present, then the other is required.  
**Semantic Notes:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
L1101	127	Reference Identification	X AN 1/30
L1102	128	Reference Identification Qualifier	X ID 2/3

**Segment:** **NTE** Note/Special Instruction  
**Position:** 130  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
	NTE01	363	Note Reference Code	O ID 3/3
M	NTE02	352	Description	M AN 1/80



**Segment:** **N1** Name  
**Position:** 140  
**Loop:** 0100 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
M	N101	98	Entity Identifier Code	M ID 2/3
	N102	93	Name	X AN 1/60
	N103	66	Identification Code Qualifier	X ID 1/2
	N104	67	Identification Code	X AN 2/80

**Segment:** N3 Address Information  
**Position:** 160  
**Loop:** 0100 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N301	166	Address Information	M AN 1/55
	N302	166	Address Information	O AN 1/55

**Segment:** **N4** Geographic Location  
**Position:** 170  
**Loop:** 0100 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>N401</b>	<b>19</b>	<b>City Name</b>	<b>O AN 2/30</b>
<b>N402</b>	<b>156</b>	<b>State or Province Code</b>	<b>O ID 2/2</b>
<b>N403</b>	<b>116</b>	<b>Postal Code</b>	<b>O ID 3/15</b>

**Segment:** **N7** Equipment Details  
**Position:** 200  
**Loop:** 0200 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:** 1 If either N703 or N704 is present, then the other is required.  
 2 If either N705 or N716 is present, then the other is required.  
 3 If either N708 or N709 is present, then the other is required.  
**Semantic Notes:** 1 N712 is the owner of the equipment.  
 2 N723 is the operator or carrier of the rights of the equipment.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	N701	206	Equipment Initial	O AN 1/4
M	N702	207	Equipment Number	M AN 1/10
	N703	81	Weight	X R 1/10
	N704	187	Weight Qualifier	X ID 1/2
	N705	167	Tare Weight	X N0 3/8
	N706	232	Weight Allowance	O N0 2/6
	N707	205	Dunnage	O N0 1/6
	N708	183	Volume	X R 1/8
	N709	184	Volume Unit Qualifier	X ID 1/1
	N710	102	Ownership Code	O ID 1/1
	N711	40	Equipment Description Code	O ID 2/2
	N712	140	Standard Carrier Alpha Code	O ID 2/4
	N713	319	Temperature Control	O AN 3/6
	N714	219	Position	O AN 1/3
	N715	567	Equipment Length	O N0 4/5

**Segment:** **M7** Seal Numbers  
**Position:** 210  
**Loop:** 0200 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	M701	225	Seal Number	M AN 2/15
	M702	225	Seal Number	O AN 2/15
	M703	225	Seal Number	O AN 2/15
	M704	225	Seal Number	O AN 2/15

**Segment:** **S5** Stop-off Details  
**Position:** 010  
**Loop:** 0300 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Syntax Notes:** 1 If either S503 or S504 is present, then the other is required.  
 2 If either S505 or S506 is present, then the other is required.  
 3 If either S507 or S508 is present, then the other is required.  
**Semantic Notes:** 1 S509 is the stop reason description.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
M	S501	165	Stop Sequence Number	M N0 1/3
M	S502	163	Stop Reason Code	M ID 2/2
	S503	81	Weight	X R 1/10
	S504	188	Weight Unit Code	X ID 1/1
	S505	382	Number of Units Shipped	X R 1/10
	S506	355	Unit or Basis for Measurement Code	X ID 2/2

**Segment:** **L11** Business Instructions and Reference Number  
**Position:** 020  
**Loop:** 0300 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 50  
**Syntax Notes:** 1 At least one of L1101 or L1103 is required.  
 2 If either L1101 or L1102 is present, then the other is required.  
**Semantic Notes:**

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
L1101	127	Reference Identification	X AN 1/30
L1102	128	Reference Identification Qualifier	X ID 2/3

**Segment:** **G62** Date/Time  
**Position:** 030  
**Loop:** 0300 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Syntax Notes:**

- 1 At least one of G6201 or G6203 is required.
- 2 If either G6201 or G6202 is present, then the other is required.
- 3 If either G6203 or G6204 is present, then the other is required.

**Semantic Notes:**

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
G6201	432	Date Qualifier	X ID 2/2
G6202	373	Date	X DT 8/8
G6203	176	Time Qualifier	X ID 1/2
G6204	337	Time	X TM 4/8



**Segment:** **NTE** Note/Special Instruction  
**Position:** 065  
**Loop:** 0300 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	NTE01	363	Note Reference Code	O ID 3/3
M	NTE02	352	Description	M AN 1/80

**Segment:** **L5** Description, Marks and Numbers

**Position:** 130

**Loop:** 0320 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Syntax Notes:** 1 If either L503 or L504 is present, then the other is required.

2 If L507 is present, then L506 is required.

3 If either L508 or L509 is present, then the other is required.

**Semantic Notes:**

#### Data Element Summary

<b>Ref.</b>	<b>Data</b>		
<b>Des.</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
L501	213	Lading Line Item Number	O N0 1/3
L502	79	Lading Description	O AN 1/50
L503	22	Commodity Code	X AN 1/30
L504	23	Commodity Code Qualifier	X ID 1/1

**Segment:** **G61** Contact  
**Position:** 140  
**Loop:** 0325 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:** 1 If either G6103 or G6104 is present, then the other is required.  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	G6101	366	Contact Function Code	M ID 2/2
M	G6102	93	Name	M AN 1/60
	G6103	365	Communication Number Qualifier	X ID 2/2
	G6104	364	Communication Number	X AN 1/80

**Segment:** **LH1** Hazardous Identification Information  
**Position:** 143  
**Loop:** 0330 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	LH101	355	Unit or Basis for Measurement Code	M ID 2/2
M	LH102	80	Lading Quantity	M N0 1/7
	LH103	277	UN/NA Identification Code	O ID 6/6
	LH104	200	Hazardous Materials Page	O AN 1/6
	LH105	22	Commodity Code	O AN 1/30
	LH106	355	Unit or Basis for Measurement Code	O ID 2/2
			KG Kilogram	
			LB Pound	
	LH107	380	Quantity	O R 1/15
	LH108	595	Compartment ID Code	O ID 1/1
	LH109	665	Residue Indicator Code	O ID 1/1
			P Residue Last Contained Description (Packages)	
	LH110	254	Packing Group Code	O ID 1/3

**Segment:** **LH2** Hazardous Classification Information

**Position:** 144

**Loop:** 0330 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 4

**Syntax Notes:**

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

**Semantic Notes:**

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LH201	215	Hazardous Classification	O ID 1/30
LH202	983	Hazardous Class Qualifier	O ID 1/1
LH203	218	Hazardous Placard Notation	O ID 14/40
LH204	222	Hazardous Endorsement	O ID 4/25
LH205	759	Reportable Quantity Code	O ID 2/2

**Segment:** **LH3** Hazardous Material Shipping Name  
**Position:** 145  
**Loop:** 0330 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Syntax Notes:** 1 If either LH301 or LH302 is present, then the other is required.  
**Semantic Notes:** 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LH301	224	<b>Hazardous Material Shipping Name</b>	X AN 1/25
		C Canadian Shipping Name	
		D Domestic (US) Shipping Name	
		I International Shipping Name	
LH302	984	<b>Hazardous Material Shipping Name Qualifier</b>	X ID 1/1
LH303	985	<b>N.O.S. Indicator Code</b>	O ID 3/3
		NOS N.O.S. Regulatory Requirements Apply	

**Segment:** **LFH** Freeform Hazardous Material Information  
**Position:** 146  
**Loop:** 0330 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Syntax Notes:** 1 If either LFH05 or LFH06 is present, then the other is required.  
**Semantic Notes:** 1 LFH06 indicates activity of the radioactive material.  
2 LFH07 indicates transport index of the radioactive material.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M ID 3/3
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25

**Segment:** **L3** Total Weight and Charges  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**

- 1 If either L301 or L302 is present, then the other is required.
- 2 If either L303 or L304 is present, then the other is required.
- 3 If either L309 or L310 is present, then the other is required.
- 4 If L312 is present, then L301 is required.
- 5 If either L314 or L315 is present, then the other is required.

**Semantic Notes:**

- 1 L305 is the total charges.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
L301	81	Weight	X R 1/10
L302	187	Weight Qualifier	X ID 1/2
L303	60	Freight Rate	X R 1/9
L304	122	Rate/Value Qualifier	X ID 2/2



**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
M	SE02	329	Transaction Set Control Number	M AN 4/9

**Segment:** **GE** Functional Group Trailer  
**Position:** 030  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:** 1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
M	GE01	97	Number of Transaction Sets Included	M N0 1/6
M	GE02	28	Group Control Number	M N0 1/9

**Segment:** **IEA** Interchange Control Trailer  
**Position:** 040  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IEA01	I16	Number of Included Functional Groups	M N0 1/5
M	IEA02	I12	Interchange Control Number	M N0 9/9