

Learning Resources

EDI GUIDELINES

INVOICE 810

VERSION 4010

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GLOSSARY OF TERMS

Segment:	Consists of a segment identifier, one or more data element each preceded by an element separator, and ending with a terminator (X12.6).	
Seg. Use:	Denotes if the segment is mandatory or optional for Learning Resources.	
Reference Des.:	Identifies the segment and the data element sequence number.	
Data Element Number:	This is the number assigned to the data element. This number may be used for direct reference into the ANSI X12 Data Dictionary.	
Data Element Name:	This is the description assigned to the data element.	
Element Usage:	M - Mandatory	Learning Resources requires this element.
	O - Optional	This element can be used.
	C - Conditional	The data element can be used only if other elements are used within the segment.

LEARNING RESOURCES' FUNCTIONAL ACKNOWLEDGEMENT

- For outbound transactions, Learning Resources expects to receive a 997 upon receipt and in any case no later than 2 days after the time of transmission.
- Learning Resources considers acknowledgment complete when Learning Resources receives the AK1 and AK9 segments.

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Envelope and Group

Segment	Segment Name	Seg. Use	Max Use	Loop Repeat
ISA	Interchange Control Header	M	1	
GS	Functional Group Header	M	1	

Header

Segment	Segment Name	Seg. Use	Max Use	Loop Repeat
ST	Transaction Set Header	M	1	
BIG	Beginning Segment for Invoice	M	1	
N1	Name	M	1	
ITD	Terms of Sale/Deferred Terms of Sale	M	5	
DTM	Date/Time Reference	M	10	

Detail

Segment	Segment Name	Seg. Use	Max Use	Loop Repeat
	Loop ID – IT1			200000
IT1	Baseline Item Data (Invoice)	M	1	

Summary

Segment	Segment Name	Seg. Use	Max Use	Loop Repeat
TDS	Total Monetary Value Summary	M	1	
CAD	Carrier Detail	O	1	
	Loop ID –SAC			10
SAC	Service, Promotion, Allowance or Charge Information	O	1	
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Envelope and Group

Segment	Segment Name	Seg. Use	Max Use	Loop Repeat
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

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Segment: ISA - Interchange Control Header
Level: Envelope
Learning Resources Usage: Mandatory
Purpose: To start and identify a transmission for a partner.

Ref. Des.	Data Element	Name	Element Usage
ISA01	101	Authorization Information Qualifier 00 No authorization information present.	M
ISA02	102	Authorization Information This field will be blank.	M
ISA03	103	Security Information Qualifier 00 No authorization information present.	M
ISA04	104	Security Information This field will be blank.	M
ISA05	105	Interchange ID Qualifier Learning Resources 12 – Production ZZ - Test	M
ISA06	106	Interchange Sender ID Learning Resources EDI IDs 8475738400 – Production 8475738400T – Test	M
ISA07	105	Interchange ID Qualifier Partner's EDI ID Qualifier	M
ISA08	107	Interchange Receiver ID Partner's EDI ID – test or Partner's EDI ID – production	M
ISA09	108	Date The format is YYMMDD	M

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Segment: ISA - Interchange Control Header (Continued)
Level: Envelope
Learning Resources Usage: Mandatory
Purpose: To start and identify a transmission for a partner.

Ref. Des.	Data Element	Name	Element Usage
ISA10	109	Time The time that the interchange was created in Learning Resources' system. The format is HHMM (24 Hr.)	M
ISA11	110	Interchange Standards Identifier U U.S. EDI community of X12	M
ISA12	111	Interchange Version ID 00401 Version 4010	M
ISA13	112	Interchange Control Number This value is sequentially assigned by Learning Resources starting with the number "1" for each trading partner. The value entered in this field will match the value in the Interchange Control Number field on the Interchange Control Trailer (IEA02).	M
ISA14	113	Acknowledgment Requested 0 No acknowledgment requested.	M
ISA15	114	Test Indicator P Production Data	M
ISA16	115	Subelement Separator >	M

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Segment: GS - Functional Group Header
Level: Group
Learning Resources Usage: Mandatory
Purpose: Indicates the beginning of a functional group and provides control information.

Ref. Des.	Data Element	Name	Element Usage
GS01	479	Functional ID IN Invoice (810)	M
GS02	142	Application Sender's Code This is the same code as used in the (ISA06).	M
GS03	124	Application Receiver's Code This is the same code as used in the (ISA08).	M
GS04	373	Data Interchange Date The format is CCYYMMDD	M
GS05	337	Data Interchange Time The time that the interchange was created in Learning Resources' system. The format is HHMM (24 Hr.)	M
GS06	28	Data Interchange Control Number This value is sequentially assigned by Learning Resources starting with the number "1" for each trading partner. The value entered in this field will match the one in the Functional Group Trailer (GE02).	M
GS07	455	Responsible Agency Code X Accredited standards committee X12.	M
GS08	480	Version 004010	M

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Segment: ST - Transaction Set Header
Level: Header
Learning Resources Usage: Mandatory
Purpose: To indicate the start of a transaction set and assign a control number.

Ref. Des.	Data Element	Name	Element Usage
ST01	143	Transaction Set Identifier Code 810 This is the code that identifies the transaction as an invoice	M
ST02	329	Transaction Set Control Number Assigned by Learning Resources.	M

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Segment: BIG - Beginning Segment for Invoice
Level: Header
Learning Resources Usage: Mandatory
Purpose: To transmit identifying numbers and dates.

Ref. Des.	Data Element	Name	Element Usage
BIG01	373	Invoice Date Invoice issue date. Format is CCYYMMDD	M
BIG02	76	Invoice Number Identifying number assigned by issuer.	M
BIG04	324	Purchase Order Number This field contains Partner's P.O. number.	M

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Segment: N1 - Name
Level: Header
Learning Resources Usage: Mandatory
Purpose: To identify the bill to locations for the purchase order.

Ref. Des.	Data Element	Name	Element Usage
N101	98	Entity Identifier Code RI Remit To	M
N102	93	Name For Learning Resources: Learning Resources, Inc For Educational Insights: Educational Insights, Inc	C

LEARNING RESOURCES SEGMENT USAGE COMMENTS

- The "RI" indicates the receiver of the payment required for this invoice.

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Segment: ITD - Terms of Sale
Level: Header
Learning Resources Usage: Mandatory
Purpose: To specify the terms of sale.

Ref. Des.	Data Element	Name	Element Usage
ITD01	336	Terms Type Code 01 Basic	M
ITD03	338	Terms Discount Percent The discount percent available to the trading partner if an invoice is paid on or before the terms discount due date.	O
ITD04	370	Terms Discount Due Date The date the payment is due if the discount is to be earned. Format is CCYYMMDD.	C
ITD05	351	Terms Discount Days Due Number of days in discount period by which payment is due if discount is earned.	C
ITD06	446	Terms Net Due Date Date when total invoice amount becomes due. Format is CCYYMMDD.	M
ITD07	386	Terms Net Days Number of days until total invoice amount is due.	M
ITD08	362	Terms Discount Amount Total amount of terms discount	O
ITD13	765	Day of the Month Numeric value of the day of the month.	C

LEARNING RESOURCES SEGMENT USAGE COMMENTS

- When the "01" terms type code is used, Learning Resources sends valid data in the ITD06 and ITD07. If a discount is offered; the ITD03, ITD05, and the ITD08 are all sent.

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Segment: DTM - Date/Time References
Level: Header
Learning Resources Usage: Mandatory
Purpose: To specify the ship date.

Ref. Des.	Data Element	Name	Element Usage
DTM01	374	Date/Time Qualifier 011 Shipped	M
DTM02	373	Date Format is CCYYMMDD	M

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Segment: IT1 - Baseline Item Data (Invoice)
Level: Header
Learning Resources Usage: Mandatory
Purpose: To specify the basic line item data for the invoice.

Ref. Des.	Data Element	Name	Element Usage
IT101	350	Assigned Identification	M
IT102	358	Quantity Invoiced	M
IT103	355	Unit of Measurement Code EA Each	M
IT104	212	Unit Price	M
IT106	235	Product/Service ID Qualifier CB Buyer's Catalog Number	M
IT107	234	Product/Service ID	M
IT108	235	Product/Service ID Qualifier VP Vendor (Seller's) Part Number	C
IT109	234	Product/Service ID	C
IT110	235	Product/Service ID Qualifier UP UPC Consumer's Package Code (1-5-5-1)	C
IT111	234	Product/Service ID	C

LEARNING RESOURCES SEGMENT USAGE COMMENTS

- The quantity invoiced will always equal the quantity shipped.
- Learning Resources sends at least one of the following: "CB", "VP" and "UP".
- The Product IDs reflect those that were received on the trading partner's purchase order.

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Segment: TDS - Total Monetary Value Summary
Level: Summary
Learning Resources Usage: Mandatory
Purpose: To identify the total invoice discounts and amounts.

Ref. Des.	Data Element	Name	Element Usage
TDS01	610	Amount Amount of invoice before terms discount	M
TDS02	610	Amount Amount upon which the terms discount amount is calculated.	C
TDS03	610	Amount Amount of invoice due if paid by terms discount due date.	O

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Segment: CAD - Carrier Detail
Level: Summary
Learning Resources Usage: Optional
Purpose: To specify transportation details for the invoice.

Ref. Des.	Data Element	Name	Element Usage
CAD05	387	Routing Free-form description of the routing or originating carrier's identity.	C

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Segment: SAC - Service, Promotion, Allowance, or Charge
Level: Summary
Learning Resources Usage: Optional
Purpose: To identify a service, promotion, allowance or charge and to specify the amount for the service, promotion, allowance or charge.

Ref. Des.	Data Element	Name	Element Usage
SAC01	248	Allowance or Charge Indicator C Charge	M
SAC02	1300	Service, Allowance, Charge Code Code identifying the type of charge or allowance	C
SAC05	610	Amount Total dollar amount for the allowance/charge	M
SAC12	331	Allowance or Charge Method of Handling Code 06 Charge to be paid by Customer	M

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Segment: CTT - Transaction Totals
Level: Summary
Learning Resources Usage: Mandatory
Purpose: To provide total line items to validate transaction completeness and correctness.

Ref. Des.	Data Element	Name	Element Usage
CTT01	354	Number of Line Items Total number of line items (IT1 segments) present in the transaction set.	M

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Segment: SE - Transaction Set Trailer
Level: Summary
Learning Resources Usage: Mandatory
Purpose: To indicate the end of the transaction set and to provide the count of the segments transmitted within the transaction set.

Ref. Des.	Data Element	Name	Element Usage
SE01	96	Number of Included Segments The total number of segments included in a transaction set including the ST and SE segments.	M
SE02	329	Transaction Set Control Number The identifying transaction set control number. This must be the same number as in the ST02.	M

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Segment: GE - Functional Control Trailer
Level: Group
Learning Resources Usage: Mandatory
Purpose: Indicates the end of a functional group and provides control information.

Ref. Des.	Data Element	Name	Element Usage
GE01	97	Number of Included Transaction Sets This field represents the number of transaction sets (ST/SE) included in the functional group (GS/GE).	M
GE02	28	Data Interchange Control Number This must be the same number that was entered in the (GS06) field for the group.	M

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Segment: IEA - Interchange Control Trailer
Level: Envelope
Learning Resources Usage: Mandatory
Purpose: To define the end of an interchange for a partner and to provide control information.

Ref. Des.	Data Element	Name	Element Usage
IEA01	116	Number of Included Groups This field represents the number of GS segments within the transmission.	M
IEA02	112	Interchange Control Number The number in this field must match the one in the ISA segment (ISA13).	M

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Example of 810 Invoice transaction on which a discount is not applicable:

ISA*00* *00* *12*8475738400 *qualifier*partner ID * 080628*1657
*U*00401*000000005*0*P*::~~
GS*IN*8475738400*partner ID*20080628*1657*810000004*X*004010~
ST*810*000000010~
BIG*20080508* Learning Resources' invoice number**partner's PO number~
N1*RI*Learning Resources, Inc~ Learning Resources' Remit Information
ITD*01*****20080607*30~
DTM*011*20080508~
IT1*000001*180*EA*2.75**CB*Partner's SKU*VP*Learning Resources Part ID*UP*UPC information~
TDS*49500~
CAD*****CONSOLIDATED FRTWAYS~
CTT*1~
SE*10*000000010~
GE*1*810000004~
IEA*1*000000005~

Example of 810 Invoice transaction with a discount included:

ISA*00* *00* *12*8885919334 *qualifier*partner ID *081128*1414
*U*00401*000000001*1*P*::~~
GS*IN*8885919334*partner ID*20081128*1414*281414398*X*004010~
ST*810*281414440~
BIG*20081109* Educational Insights' invoice number**partner's PO number~
N1*RI*Educational Insights, Inc~ Educational Insights' Remit Information
ITD*01**2**60*20090109*61*14015~
DTM*011*20081109~
IT1**96*EA*13** CB*12205887*UP*633040701011~
IT1**48*EA*44.18** CB*12209978*UP*633040763019~
IT1**205*EA*17.75** CB*12206767*UP*633040656052~
TDS*700739~
CTT*3~
SE*11*281414440~
GE*1*281414398~
IEA*1*000000001~