TL 9000 Product Categories R5.7 vs. Likely NACE Rev 1 Codes

NOTE: The following list is provided as an aid in selecting NACE codes. It is not an exhaustive list of all possible NACE codes for a given TL 9000 Product Category. The actual NACE code used by the organization should be selected after consultation between the organization and its certification body auditor.

PRODUCT CATEGORY	NACE Code	IAF/EA #
1 SWITCHING		
1.1 Circuit Switch		
1.2 Packet Switch		
1.2.1 Legacy Packet Products		
1.2.2 Access Multi-Service	DL 32.2 Telephony mfg.	19
1.2.2.1 Wireline	and/or	
1.2.2.2 Wireless	K 72.2 Software supply	33
1.2.4.1 Legacy Ethernet Switches		
1.2.4.2 Virtualized Ethernet Switches		
1.2.3 Media Gateways		
1.2.7 Application Servers		
1.2.8 Service and Network Controller		
1.2.9 Routers		
1.2.9.1.1 Legacy Core		
1.2.9.1.2 Virtualized Core		
1.2.9.2.1 Legacy Edge		
1.2.9.2.2 Virtualized Edge		
1.2.9.3 Access		
2 SIGNALING AND NETWORK CONTROL		
2.1 Service Control (SCP)		
2.2 Signaling Controllers	DL 32.2 Telephony mfg.	19
2.3 Home Location Register (HLR)	and/or	
2.4 Service Logic (SL)	K 72.2 Software supply	33
2.5 Protocol Server		
2.6 Network Access Control		
2.7 Network Security		
2.8 Mobility Management Entity		
3 TRANSMISSION		
3.1 Transmission Media and Structure		
3.1.1 Transmission Medium		
3.1.1.1 Metallic Products	DL 31.3 Wire & cable mfg.	19
3.1.1.1.1 Metallic Conductor Cable		
3.1.1.1.2 Metallic Conductors	DL 31.2 Electricity distribution and control apparatus mfg.	19
3.1.1.2 Optical Fiber Products	DL 33.4 Optical instruments and photographic equipment mfg.	19
3.1.1.2.1 Optical Fiber		
3.1.1.2.2 Optical Connectors		
3.1.1.3 Transmission Components	DL 32.2 Telephony mfg.	19
3.1.1.3.1 Active Sub-systems		
3.1.1.3.2 Passive Optical Sub-systems	DL 33.4 Optical instruments and photographic equipment mfg.	19
3.1.1.3.3 Ancillary Sub-systems	DL 32.2 Telephony mfg.	19
3.1.1.3.4 Fixed Antenna Systems	DL 32.2 Telephony mfg.	19
3.1.1.3.4.1 Radio Antenna Systems		
3.1.1.3.4.2 Satellite Antenna Systems		
3.1.1.3.4.3 Optical Antenna Systems		
3.1.2 Physical Structures	DJ 28.1 Structural metal product mfg.	17
3.1.2.1 Enclosures		
3.1.2.2 Support Structures		
3.1.2.3 Conduits		

PRODUCT CATEGORY	NACE Code	IAF/EA #
3.2 Transport Equipment		
3.2.1 Cross Connect Systems		
3.2.1.1 Manual Cross Connect Systems		
3.2.1.2 Digital Cross Connect Systems		
3.2.1.3 Optical Cross Connect Systems		
3.2.2 Carrier Systems / Multiplex		
3.2.2.1 Interoffice / Long Haul		
3.2.2.1.1 Metallic Carrier System	DL 32.2 Telephony mfg. and/or	19
3.2.2.1.2 Optical Carrier System		
3.2.2.1.2.1 Optical Transport System	K 72.2 Software supply	33
3.2.2.1.2.2 WDM / DWDM / Optical Amplification Products		
3.2.2.1.2.3 Reconfigurable Optical Add-Drop Multiplexer (ROADM)		
3.2.2.1.3 Microwave		
3.2.2.2 Loop Carrier		
3.2.3 Line Terminating Equipment / Distributing Frames		
3.2.4 Digital Subscriber Line (DSL)		
3.2.5 Fiber to the User		
3.2.6 Video Transmission		
3.2.6.1 Cable Modem Termination Equipment		
3.2.6.2 Video Transmission Equipment		
3.2.6.4 Ad Servers		
3.3 Wireless Transmission		
3.3.1 Base Station Equipment		
3.3.2 Base Transceiver System (BTS)		
3.3.2.1 Basic		
3.3.2.2 Advanced		
3.3.2.3 4G		
3.3.2.4 Small Cell Radios		
3.3.2.5 Combined		
3.3.2.6 5G		
3.3.3 Pilot Beacon Unit (PBU)		
3.3.4 WLAN Base Station Equipment		
3.4 Ancillary Products		
3.4.1 Location Services		
3.4.2 Lawful Intercept		
4 OPERATIONS & MAINTENANCE		
4.1 Test Systems	DL 33.2 Mfg. of Instruments and appliances for measuring, checking, testing, etc. and/or	19
	K 72.2 Software supply	33
4.2 Operational Support Systems		
4.2.1.1 Legacy On-Line Critical	DL 32.2 Telephony mfg. and/or	19
4.2.1.2 NFV Orchestrator		
4.2.2.1 Legacy On-Line Non-Critical	K 72.2 Software supply	33
4.2.2.2 Virtual Network Function Manager (VNFM)		
4.2.3 Off Line		
4.3 Ancillary Operations and Maintenance		
5 COMMON SYSTEMS		
5.1 Synchronization	DL 32.2 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus and/or	19
	K 72.2 Software supply	33
5.2 General Purpose Computers	DL 30.0 Mfg. of computers	19
5.3 Power Systems	DL 31.2 Mfg. of electricity	

PRODUCT CATEGORY	NACE Code	IAF/EA #
	distribution and control apparatus	19
	and/or	
	DL 31.4 Mfg. of accumulators, primary cells and primary batteries	
5.4 Data Storage Systems	DL 30.0 Mfg. of computers	19
	and/or	
	K 72.2 Software supply	33
6 CUSTOMER PREMISES		
6.1 Enhanced Services	DL 30.0 Mfg. of computers	19
	and/or	
	K 72.2 Software supply	33
6.2 Terminal Equipment 6.2.1 Voice Terminals 6.2.1.1 Wireless Telephone Sets 6.2.1.2 Wireless Subscriber User Terminals 6.2.1.2.1 Feature Phone 6.2.1.2.2 Smart Phone 6.2.1.2.3 Radios	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19
6.2.1.2.4 Wireless Terminal Software Applications	K 72.2 Software supply	33
6.2.1.2.5 Tablets	DL 30.0 Manufacture of office machinery and computers	19
6.2.1.2.6 External Power Systems	DL 31.6 Manufacture of electrical equipment n.e.c.	
6.2.2 Cloud Terminal 6.2.3 Data Modems 6.2.3.1 Wired Modems 6.2.3.2 Wireless Modems 6.2.4 Digital Data Service Units 6.2.5 Passive Optical Network Termination Units 6.2.6 Television Interfaces 6.2.6.1 Set Top Box 6.2.6.2 TV Stick 6.2.7 CPE Router 6.2.8 Home Base Station	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19
6.3 Automatic Call Distribution (ACD) Systems	DL 30.0 Mfg. of computers	19
	and/or	
	K 72.2 Software supply	33
6.4 Private Branch Exchanges (PBX)	DL 32.2 Telephony mfg.	19
	and/or	
	K 72.2 Software supply	33
6.5 Small Communications Systems (Key Telephone Systems)	DL 32.2 Telephony mfg. DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19
6.6 Internet Security Devices	DL 32.2 Telephony mfg.	19
	and/or	
	K 72.2 Software supply	33
6.7 Sensors and Internet Enabled Devices	DL 31.6 Manufacture of electrical equipment n.e.c.	
6.8 Remote Terminal	DL 32.2 Telephony mfg.	
7 SERVICE PRODUCTS		
7.1 Network Installation and Provisioning 7.1.1 Installation 7.1.1.1 Physical Installation 7.1.1.2 Remote Installation	F 45.2 Building of complete construction or parts thereof; civil engineering or the NACE code of the product being installed	28

7.1.2 Provisioning	I 64.2 Telecommunications	31
7.1.3 Construction Services	F 45.2 Building of complete construction or parts thereof; civil engineering	28
7.1.4 Tower Construction	F 45.2 Building of complete construction or parts thereof; civil engineering	28
7.1.5 Installation and Engineering Audit	K 74.3 Technical testing and analysis	
7.2 Engineering Services 7.2.1 Network Engineering Services 7.2.1.1 Fixed Network 7.2.1.2 Mobile Network	K 74.2 Architectural and engineering activities and related technical consultancy	34
7.2.2 Software Development Services 7.2.3 Hardware Development Services	K 74.8 Other business activities	35
7.2.4 Telecom Network Integration	I 64.2 Telecommunications DL 32.2 Telephony mfg.	31
7.2.5 Metrology and Calibration 7.2.6 Telecom Test Laboratory	K 74.3 Technical testing and analysis	35
7.3 Maintenance Services 7.3.1 Network Field Maintenance 7.3.2 Network Operations Center 7.3.3 Network Performance Services	K 74.8 Other business activities	35
7.4 Repair Services	Same NACE Code as manufacturer of hardware or systems being repaired	19
7.5 Customer Support Center 7.5.1 Technical Assistance and Customer Support Centers 7.5.2 End-customer Support Services 7.6 Purchasing Services 7.6.1 Procurement Services 7.6.2 Sourcing/Purchasing Services 7.6.3 Communications Services Acquisition	K 74.8 Other business activities	35
7.7 Manufacturing Services 7.7.1 Small Assemblies 7.7.2 Printed Circuit Board Assembly 7.7.3 Cable Assembly 7.7.4 Electromechanical Assembly	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19
7.7.5 Logistical Services 7.7.5.1 Logistical Services, Third Party 7.7.5.2 Logistical Services, Internal 7.7.5.3 Reverse Logistics	K 74.8 Other business activities	35
7.8 Business Services 7.8.1 Financial Services 7.8.2 Contract/Temporary Staffing 7.8.3 Training 7.8.4 Fleet Logistics 7.8.5 Facility Management 7.8.6 Project Management 7.9 General Support Services 7.10 e-Business Consulting 7.11 Customer Assistance	K 74.8 Other business activities	35
8 Components and Subassemblies		
8.1 Components 8.1.1 Discrete Semiconductors 8.1.2 Integrated Circuits 8.1.3 Passive Components	DL 32.1 Mfg. of electronic valves and tubes and other electronic components	19

8.1.4 Mechanical and Electromechanical 8.1.5 Printed Circuit Boards		

8.2 Electronic Assemblies
  8.2.1 Simple
  8.2.2 Medium Complexity
  8.2.3 High Complexity
  8.2.4 Very High Complexity
  8.3 Cable Assemblies
  8.4 Electromechanical Assemblies
	DL 32.2 Telephony mfg.
	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus
		19

8.5 Optical Fiber and Devices
8.5.1 Optical Fiber Material
  8.5.1.1 Optical Fiber
  5.2.1.2 Optical Glass
8.5.2 Optical Devices
  8.5.2.1 Opto-electronic Devices
  8.5.2.2 Passive Optical Devices
  8.5.2.3 Optical Subassemblies
	DL 33.4 Optical instruments and photographic equipment mfg.	19

8.6 Software Components and Tools
  8.6.1 Software Components
  8.6.2 Software Development Tools
	K 72.2 Software supply	33

9 End-Customer Services		

9.1 Voice
  9.2 Wireless
  9.3 Transport Networks
  9.4 Private Networks
  9.5 Internet Access
  9.6 e-Business & Content Hosting
9.7 Bulk Transport
  9.7.1 Infrastructure
  9.7.2 Wholesale
  9.8 Video Broadcast
  9.9 Emergency Service Network
	I 64.2 Telecommunications	31

Accredited certification bodies require approval from their accreditation body for the scope category (NACE Code) associated with the product category of the supplier being assessed for TL 9000 conformance; these are summarized as follows:

NACE Code	TL 9000 Registration Specialty Options
DJ 28.1	TL 9000-H
DL 30.0	TL 9000-H
DL 31.2	TL 9000-H
DL 31.3	TL 9000-H
DL 31.4	TL 9000-H
DL 32.2	TL 9000-H TL 9000-S
DL 32.3	TL 9000-H TL 9000-S
DL 33.2	TL 9000-H TL 9000-S
DL 33.4	TL 9000-H
F 45.2	TL 9000-V
I 64.2	TL 9000-V
K 72.2	TL 9000-S
K 74.2	TL 9000-V
K 74.8	TL 9000-V

Note: Does not include consideration of component level product categories.
Note: For any Hardware registration option above, if repair is also offered then the TL 9000-V option could also apply.
Note: Product Categories listed in Red will be used for possible Data Aggregation only. Measurements must be submitted in the lowest Product Category listing.