

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS
(All unshaded skill sets must be demonstrated/completed)**

SKILL SETS

SKILLS

OCCUPATIONAL HEALTH AND SAFETY PROCEDURES 6970.0	Identify and take corrective action against potential workplace health and safety hazards 6970.01	Handle, store and dispose of hazardous workplace materials 6970.02	Wear and maintain personal protective equipment 6970.03	Comply with workplace-related legislation, relating to highway traffic safety, parts, warranties, occupational health/safety, environmental protection and business and trade practices 6970.04	Interpret and apply service-related information 6970.05
Practice good housekeeping in the workplace 6970.06	Comply with Workplace Hazardous Materials Information System (WHMIS) 6970.07				

ELECTRICAL SYSTEMS 6971.0	Perform visual inspection, identifying system types and applications 6971.01	Diagnose and troubleshoot batteries 6971.02	Service and boost/charge batteries 6971.03	Diagnose and troubleshoot starting system and components 6971.04	Repair starting systems and components 6971.05
Verify repair of starting systems and components 6971.06	Diagnose and troubleshoot charging systems and components 6971.07	Repair charging systems and components 6971.08	Verify repair of starting systems and components 6971.09	Diagnose and troubleshoot electrical, electronic and computer-controlled systems and components 6971.10	Repair electrical, electronic and computer-controlled systems and components 6971.11
Verify repair of electrical, electronic and computer-controlled systems and components 6971.12	Diagnose and troubleshoot electrical/electronic ignition systems and components 6971.13	Repair electrical/electronic ignition systems and components 6971.14	Verify repair of electrical/electronic ignition systems and components 6971.15	Diagnose and troubleshoot hybrid drives and components 6971.16	Repair hybrid Drives and components 6971.17
Verify repair of hybrid drives and components 6971.18					

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

HYDRAULIC SYSTEMS 6972.0	Perform visual inspection, identifying system types and applications 6972.01	Diagnose and troubleshoot mechanical controlled hydraulic systems and components 6972.02	Repair mechanical controlled hydraulic systems and components 6972.03	Verify repair of mechanical controlled hydraulic systems and components 6972.04	Diagnose and troubleshoot electrical and electronic-controlled hydraulic systems and components 6972.05
Repair electrical and electronic-controlled hydraulic systems and components 6972.06	Verify repair of electrical and electronic-controlled hydraulic systems and components 6972.07				

ENGINE SYSTEMS 6973.0	Perform visual inspection, identifying system types and applications 6973.01	Diagnose and troubleshoot cooling systems and components 6973.02	Repair cooling systems and components 6973.03	Verify repair of cooling systems and components 6973.04	Diagnose and troubleshoot engine lubricating systems and components 6973.05
Repair engine lubricating systems and components 6973.06	Verify repair of engine lubricating systems and components 6973.07	Diagnose and troubleshoot cylinder heads and components 6973.08	Repair cylinder heads and components 6973.09	Verify repair of cylinder heads and components 6973.10	Diagnose and troubleshoot engine blocks and components 6973.11
Repair engine blocks and components 6973.12	Verify repair of engine blocks and components 6973.13				

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

INTAKE, EXHAUST, EMISSION CONTROL AND ENGINE BRAKE SYSTEMS 6974.0	Perform visual inspection, identifying system types and applications 6974.01	Diagnose and troubleshoot intake, exhaust, engine brake systems and components 6974.02	Repair intake, exhaust and engine brake systems 6974.03	Verify intake, exhaust and engine brake systems 6974.04	Diagnose and troubleshoot turbocharger/supercharger systems and components 6974.05
Repair turbocharger/supercharger systems and components 6974.06	Verify repair of turbocharger/supercharger systems and components 6974.07	Diagnose and troubleshoot emission control systems and components 6974.08	Repair emission control systems and components 6974.09	Verify repair of emission control systems and components 6974.10	

MECHANICAL CONTROLLED FUEL SYSTEMS 6975.0	Perform visual inspection, identifying system types and applications 6975.01	Diagnose and troubleshoot gasoline mechanical controlled fuel systems and components 6975.02	Repair gasoline mechanical controlled fuel systems and components 6975.03	Verify repair of gasoline mechanical controlled fuel systems and components 6975.04	Diagnose and troubleshoot mechanical controlled diesel fuel systems and components 6975.05
Repair mechanical controlled diesel fuel systems and components 6975.06	Verify repair of mechanical controlled diesel fuel systems and components 6975.07	Perform mechanical diesel engine tune-ups 6975.08			

ELECTRONIC CONTROLLED FUEL SYSTEMS 6976.0	Perform visual inspection, identifying system types and applications 6976.01	Diagnose and troubleshoot electronic controlled gasoline engine systems and components 6976.02	Repair electronic controlled gasoline engine systems and components 6976.03	Verify repair of electronic controlled gasoline engine systems and components 6976.04	Diagnose and troubleshoot electronic controlled diesel engine systems and components 6976.05
Repair electronic controlled diesel engine systems and components 6976.06	Verify repair of electronic controlled diesel engine systems and components 6976.07	Perform gasoline engine tune-ups 6976.08	Perform electronic diesel engine tune-ups 6976.09		

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

CLUTCHES AND TRANSMISSIONS 6977.0	Perform visual inspection, identifying system types and applications 6977.01	Diagnose and troubleshoot clutch systems and components 6977.02	Repair clutch systems and components 6977.03	Verify repair of clutch systems and components 6977.04	Diagnose and troubleshoot manual transmissions/ transfer cases and components 6977.05
Repair manual transmissions/ transfer cases and components 6977.06	Verify repair of manual transmissions/ transfer cases and components 6977.07	Diagnose and troubleshoot mechanical controlled power shift transmissions and components 6977.08	Repair mechanical controlled power shift transmissions and components 6977.09	Verify repair of mechanical controlled power shift transmissions and components 6977.10	Diagnose and troubleshoot electrical and electronic controlled power shift continuously variable (CVT) transmissions components 6977.11
Repair electrical and electronic-controlled power shift continuously variable (CVT) transmissions components 6977.12	Verify repair of electrical and electronic controlled power shift continuously variable (CVT) transmissions components 6977.13	Diagnose and troubleshoot hydrostatic transmissions and components 6977.14	Repair hydrostatic transmissions and components 6977.15	Verify repair of hydrostatic transmissions and components 6977.16	
DRIVE AXLE AND FINAL DRIVE ASSEMBLIES 6978.0	Perform visual inspection, identifying system types and applications 6978.01	Diagnose and troubleshoot drive shafts, axles, differentials, final drives and components 6978.02	Repair drive shafts, axles, differentials, final drives and components 6978.03	Verify repair of drive shafts, axles, differentials, final drives and components 6978.04	
STEERING SYSTEMS 6979.0	Perform visual inspection, identifying system types and applications 6979.01	Diagnose and troubleshoot steering systems and components 6979.02	Repair steering systems and components 6979.03	Verify repair of steering systems and components 6979.04	

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

BRAKING SYSTEMS	Perform visual inspection, identifying system types and applications	Diagnose and troubleshoot braking systems and components	Repair braking systems and components	Verify repair of braking systems and components	
6980.0	6980.01	6980.02	6980.03	6980.04	
AIR SUPPLY AND AUXILIARY AIR SYSTEMS	Perform visual inspection, identifying system types and applications	Diagnose and troubleshoot air supply and auxiliary air systems and components	Repair air supply and auxiliary air systems and components	Verify repair of air supply and auxiliary air systems and components	
6981.0	6981.01	6981.02	6981.03	6981.04	
SUSPENSION SYSTEMS	Perform visual inspection, identifying system types and applications	Diagnose and troubleshoot suspension systems and components	Repair suspension system and components	Verify repair of suspension system and components	
6982.0	6982.01	6982.02	6982.03	6982.04	
TIRES, WHEELS, BALLASTING, UNDERCARRIAGES AND TRACKS	Perform visual inspection, identifying system types and applications	Diagnose and troubleshoot tires, wheels, ballasting and components	Replace tires, wheels, ballasting and components	Verify repair of tires, wheels, ballasting and components	Diagnose and troubleshoot undercarriages and components
6983.0	6983.01	6983.02	6983.03	6983.04	6983.05
Repair undercarriages and components	Verify repair of undercarriages and components				
6983.06	6983.07				

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

CLIMATE CONTROL SYSTEMS 6984.0	Perform visual inspection, identifying system types and applications 6984.01	Diagnose and troubleshoot heating and ventilation systems and components 6984.02	Repair heating and ventilation systems and components 6984.03	Verify repair of heating and ventilation systems and components 6984.04	Diagnose and troubleshoot air conditioning systems and components 6984.05
Repair air conditioning systems and components 6984.06	Verify repair of air conditioning systems and components 6984.07				
STRUCTURAL COMPONENTS AND ACCESSORIES 6985.0	Perform visual inspection, identifying system types and components 6985.01	Diagnose and troubleshoot structural components and accessories 6985.02	Repair structural components and accessories 6985.03	Verify repair of structural components and accessories 6985.04	
AGRICULTURAL IMPLEMENTS – TILLAGE AND PLANTING 6986.0	Perform visual inspection, identifying system types and applications 6986.01	Diagnose and troubleshoot tillage, planting equipment and components 6986.02	Repair tillage, planting equipment and components 6986.03	Verify repair of tillage, planting equipment and components 6986.04	
AGRICULTURAL IMPLEMENTS – HARVESTING 6987.0	Perform visual inspection, identifying system types and applications 6987.01	Diagnose and troubleshoot harvesting equipment and components 6987.02	Repair harvesting equipment and components 6987.03	Verify repair of harvesting equipment and components 6987.04	

**COMPETENCY ANALYSIS PROFILE
AGRICULTURAL EQUIPMENT TECHNICIAN
ON-THE-JOB TRAINING STANDARDS**

AGRICULTURAL IMPLEMENTS – SPRAYING, IRRIGATION AND DISTRIBUTION EQUIPMENT 6988.0	Perform visual inspection, identifying system types and applications 6988.01	Diagnose and troubleshoot spraying, irrigation, distribution equipment and components 6988.02	Repair spraying, irrigation, distribution equipment and components 6988.03	Verify repair of spraying, irrigation, distribution equipment and components 6988.04	
AGRICULTURAL IMPLEMENTS – MATERIAL HANDLING EQUIPMENT 6989.0	Perform visual inspection, identifying system types and applications 6989.01	Diagnose and troubleshoot material handling equipment and components 6989.02	Repair material handling equipment and components 6989.03	Verify repair of material handling equipment and components 6989.04	
PRECISION AGRICULTURAL SYSTEMS 6990.0	Perform visual inspection, identifying system types and applications 6990.01	Diagnose and troubleshoot precision agricultural systems and components 6990.02	Repair precision agricultural systems and components 6990.03	Verify repair of precision agricultural systems and components 6990.04	

NOTE ON SHADED PERFORMANCE OBJECTIVES AND SKILLS

Shaded performance objectives and skills are optional, that is, they do not have to be completed or signed-off for the apprentice to complete his or her apprenticeship

You will be required to disclose this signed form to the Ministry of Training, Colleges and Universities in order to complete your program. The Ministry will use your personal information to administer and finance Ontario’s apprenticeship training system.

For further information please see the notice/declaration for collection of personal information that is referenced in the table of contents of this training standard.