SAFETY INSTRUCTIONS VV00	* .
Work permit	nýrstar
	Balen/Pelt
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Contents

1	PURPOSE	2
2	STAFF	2
3	SCOPE	2
4	DEFINITIONS	2
5	EDUCATION	3
6	TASKS AND RESPONSIBILITIES	3
7	DESCRIPTION OF THE INPUT BOXES	4
8	CONTINUATION	12
9	OBLIGATION TO REGISTER IN PRODUCTION DEPARTMENTS	13
10	SHIFT TRANSFER	14
11	INTERRUPTION OF WORK	14
12	A D C LIIVING	1.4

Proces: VEILIGHEID EN GEZONDHEID

Blz. 1 of 14

Doc. No: XP-452-VV-0-00000

Document Versie: 14



Document Versie: 14

1 Purpose

The work permit plays an important role in the exchange of essential safety information when carrying out work.

That is why this manual has been written to guide the completion and understanding of the work permit in the right direction, because without correct information, filling it in makes no sense.

2 STAFF

Every end user, provider, originator,

3 SCOPE

The work permit procedure applies to all work carried out by Nyrstar maintenance staff or third parties in **Nyrstar Balen and Pelt.**

The registration and issuing of the work permit is done at the production department in the control room or registration rooms. For the "general departments" this is for the head of security, facility or porters, for warehouse or hall 1 with the head of the warehouse or his replacement

4 DEFINITIONS

Because there are many terms in the new general work permit that need clarification, they are explained further below.

Name	Description
(Coordinating) executor	A (coordinating) Nyrstar employee or a person in charge of a third party company who carries out the work.
Originator	A Nyrstar employee who commissioned the work to be carried out.
HSE risk	Safety, Health and Environmental risk
PPE	Personal Protective Equipment
Confined space	See the Safety Regulation XP-452-VV-0-00008
Lock out Tag Out	Avoids that driven machines, installations or tools from unintentionally switching back on and/or prevent operators from coming into contact with unwanted process flows.
Provider	This is the person who issues the permit. Each department must have a list of authorized providers. The issuer must be a Nyrstar employee appointed by the Superintendent of the department.
Task risk analysis (TRA)	The purpose of a task risk analysis is to identify, analyze and evaluate risks in order to agree on control measures for the performance of a (risky) task. This assignment is best done in a team.

Proces: VEILIGHEID EN GEZONDHEID Blz. 2 of 14

Doc. No: XP-452-W-0-00000

Document Versie: 14

Work permit Work permit Work permit Balen/Pelt

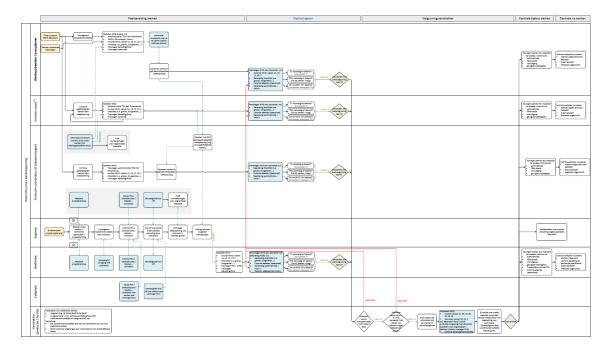
Work preparation	The purpose of work preparation is to establish a working method that is safe, fast and efficient without causing health damage.
Safety instructions	These regulations determine the guidelines and rules that the performers must adhere to when carrying out certain activities.
SDS sheet	Safety Data Sheet
General departments	Training and facility building, building fire brigade site management, porter's lodge, main building, kitchen, medical department, smis, canteen, warehouse.

5 EDUCATION

Every provider and originator must have received training about the VV with confirmation by means of a test.

6 TASKS AND RESPONSIBILITIES

In the "Work Permit Process" XF-452-FWI-T-00000, the various phases of issuing a Work Permit determine which tasks fall under a person's responsibility within this Work Permit process in function of his/her role.



Proces: VEILIGHEID EN GEZONDHEID Blz. 3 of 14



Document Versie: 14

7 DESCRIPTION OF THE INPUT BOXES

Part 1: Application for work / risks / required measures to be taken by coordinating contractor

1A: Description of activities

Werkvergunning	Externe hulp 112	nÿrstar
Deel 1: Aanvraag werkzaamheden / Risico's / Vereiste maatregelen te nemen door de	Coördinerende uitvoerder (CU)	
(1A) Omschrijving werkzaamheden		
Locatie/equipmentnr: Afdeling: Afdeling:	Ordernr.:	Soort werkzaamheden: Lassen/slijpen/branden
Omschrijving v/d werkzaamheden		 Werken met vluchtige stof Elektrische cabine => BA5/BA4 HD-spuiten ☐ Testen
		Controle ronde Sleutelen

- Execution date: if the work permit is prepared earlier than the execution date, the planned date can be entered here.
- Location/equipment nr: enter the location or equipment number here.
- Department: Here you enter the department name where the work will be carried out.
- Order no.: enter the SAP order number here, if relevant.
- Description of the work: give a brief description of the work here.
- · Possibility to tick a number of standard activities.

1B: HSE risks

(1	IB) VGM risico's	Doc.	V.V.		Doc.	V.V.	Do	c.	V.V.
	Aanwezigheid hete massa of vloeibaar metaal		VV02	Graven	Doc.11	W11	Risico op contact met zuren/basen Doc	c.20	W20
	Hijsen	Doc.03	VV03	Gebruik ioniserende straling			Beheer afvalstoffen		W21
	Mobiele arbeidsmiddelen/verkeer	Doc.04	VV04		Doc.13		Afzonderlijk tewerkgestelde		VV22
	Werken op hoogte (algemeen)	Doc.05	VV05				Gebruik en opslag van gevaarlijke stoffen (CLP)		W23
	Hoogwerker/schaarlift	Doc.06	VV06	Zone afbakenen		VV15	Eisen aan (elektrisch) handgereedschap		VV25
	Gebruik en plaatsen van stellingen		VV07	Werken in EX-zone ■ Werken in EX-zone			Mogelijke aanwezigheid asbest		VV26
	Werken in besloten ruimte (zie Deel 3C)			 Mogelijk contact met elektriciteit 		VV17	Blootstelling aan zwaveldioxide SO,		W27
	Vergrendelen	Doc.09		 Blootstelling aan lood of cadmium 			Diffuse stofemissies		W30
ᄕ	Brandgevaarlijk werk (vul Deel 2 in)		W10	Werken bij hoge temperaturen (hea	t stress)	W19	Vlamboogbeschermende kledij		W32

The HSE risks that may occur during the work are indicated here.

- Risk identification (danger)
- The underlying form (checklist), if any,
- The corresponding safety regulation

The originator, (coordinating) foreman, work planner, provider,... must assess the risks within his own domain by evaluating the:

- Risks arising from the work itself (e.g. grinding, welding, burning, etc.)
- Risks from the environment (installations, processes).
- Risks of other work (simultaneous/proximity)
- Risks if the work, leave risks for later works (e.g. removed guards).

Proces: VEILIGHEID EN GEZONDHEID Blz. 4 of 14



Doc. No: XP-452-VV-0-00000

Document Versie: 14

For the identified risks, the legal provisions, the HSE regulations of "Nyrstar Balen – Pelt" and the other procedures must be adhered to.

In case of ambiguities or doubts, advice should be sought from the originator, department managers and/or safety department.

The risks must be identified so that the appropriate control measures can be determined to eliminate the risks or reduce them to an acceptable level.

The originator, (coordinating) executor and provider must always be aware of the safety regulations (VV xx).

If applicable, the relevant checklist must be attached to the work permit (Doc. xx).

The one-pagers about the various VVs have been set up to quickly discuss the most important matters with the contractor. The one-pagers can be found on the SHEQ site. One-pagers are a simple way to quickly discuss the most important issues for performers from the specific safety regulation. These can therefore be used as a support when issuing the work permit to clearly explain the risks and measures to be taken.

Please note that these are not a substitute for the safety instructions

1C: TI/TRA

☐ TI aanwezig
☐ TRA aanwezig
Risicoanalyse via werkvergunning
Opdrachtgever:
Tel/gsm:

In this box, you must indicate whether or not there is a Task Instruction (TI) for the work that needs to be performed.

Based on the content of the task, the question is asked whether it is a routine task

Routine tasks:

- Tasks that are part of the normal craftsmanship and powers of the executor(s)
- Tasks that have been performed more often (under identical conditions)
- Tasks where the actions to be taken are simple and unambiguous and instructions are known

Then, for routine tasks, it is checked whether there is an increased risk on the basis of the following points:

- There is simultaneous risk-increasing work in the immediate vicinity
- There is (possibly) time pressure

Proces: VEILIGHEID EN GEZONDHEID Blz. 5 of 14

SAFETY INSTRUCTIONS VV00 Work permit Balen/Pelt

Doc. No: XP-452-VV-0-00000

Document Versie: 14

There are complexity-increasing aspects such as cooperation between different companies

If the answer to these control points is always "no", then it is routine work and the normal work permit is sufficient. Then fill in the box for Risk analysis via work permit.

If there is no task instruction, it must be checked whether a task risk analysis (TRA) is necessary. (the need is determined by means of "flow determine need risk analysis: XW-432-INF-0-00001") If a TRA is necessary, it must be added.

The task risk analysis can later be used to draw up a task instruction.

In order to be able to request additional information, the telephone number of the originator is entered here.

1D: PPE

(1D) PBM's		
Standaard PBM's PB	M's bij gebruik slijpmachine (gelaatsscherm,	gehoorbescherming)
 Dienstspecifieke of aanvuller 		☐ VRCO ☐ VRC1 ☐ VRC2
☐ Ruimzicht/zuurbril	Handschoenen type:	Adembescherming type:
Gelaatsscherm	Kleding/overall type:	Meettoestel type:
☐ Gehoorbescherming	Vluchtmasker	Zie betredingsfiche
☐ Valbescherming	Bumb	

This box tells more about the different PPE that must be used.

The subdivision is divided into 3 parts:

- Standard PPE:
 - Closed clothing with long sleeves and long pants with increased visibility through striking colors and reflective bands.
 - Safety helmet
 - Close-fitting safety glasses
 - Safety shoes at least S3
 - Gloves

These are assumed to be known by everyone and are therefore mandatory to indicate (see entrance film and/or safety training).

- PPE when using a grinder: This includes a face shield and hearing protection. If applicable, the check box must be checked.
- PPE resulting from:
 - TI (task instruction)
 - BF (Entry sheet)
 - TRA (task risk analysis)

Blz. 6 of 14 Proces: VEILIGHEID EN GEZONDHEID Subproces: PBW V-VOORSCHRIFTEN BIJ WERKEN



Doc. No: XP-452-VV-0-00000

Document Versie: 14

- WVB Work Preparation
- Department specific risks
- Safety regulations
- SDS sheets
- VRC0-VRC1-VRC2 is a class of arc flash risk, PPE must then be worn according to the table in <u>VV32</u> / 7 Choice arc flash protective PPE / clothing.

Da =4	ე.	Diaka	related	4-	fina h				١.
Part	2:	KISKS	related	τO	tire-n	azaro	เดเเร	wor	ĸ

Deel 2 Risico's m.b.t. brandgevaarlijk werk: LET OP: ook slijpen, snijden, lassen, snijbranden en dergelijke is brandgevaarlijk werk

If there are no risks with regard to fire-hazardous work, N/A is checked

2A: Conditions in zone LOW risk

[2A] Voorwaarden in zone LAAG risico

(2A) Voorwaarden in zone LAAG risico Controleer of de omgeving vrij is van brandbaar materiaal Zorg dat er steeds een brandblusser bij de hand is

2B: Conditions in zone MEDIUM HIGH risk

(2B) Voorwaarden in zone MIDDENHOOG risisco
2A geheel ingevuld
Maak omgeving proper (verwijder zinkstof/erts/solfer)
Zorg voor afscherming van vonken (vb. lasdekens)
Maak kieren en openingen in vloeren en wanden dicht
Indien toegelaten, hou de omgeving nat

2C: Conditions in zone HIGH risk

(2C) Voorwaarden in zone HOOG risico Advies interne brandweer beschikbaar en bijgevoegd
Naam brandwacht:
Handtekening:

'Fire hazard work' is understood to mean: work in which fire, high temperatures or sparks can occur, such as welding (oxyfuel and electric), grinding, cutting (including plasma cutting), burning paint or roofing with the help of heat sources.

Repairs to plastics such as HDPE and vulcanization of rubber (conveyor belts) are also classified as fire hazards. There are risks of fire or explosions during this work. Measures are being taken to control this risk.

The following steps must be completed:

- 1. The originator / work planner indicates that there is a risk of fire.
- 2. The installation owner (issuer of the work permit) assesses the zone where the work is carried out. Depending on the category, the appropriate measures must be taken.

Proces: VEILIGHEID EN GEZONDHEID Blz. 7 of 14



Document Versie: 14

3. The person responsible for the measures to be taken depends on the nature of the measure (executor or permit issuer). The <u>contractor</u> is responsible for ensuring that the measures are maintained during the execution of the work.

Depending on the category "Low risk zone", "Medium risk zone" or "High risk zone", blocks 1, 2, and 3 must be completed.

A detailed description can be found in the Safety Regulations

"VV10 fire hazard work"

Part 3: Control measures

3A: Product information

(3A) Productinformatie
Welk product bevat de apparatuur/leiding
of heeft deze bevat?
□ NVT
☐ Gespoeld met:

The provider states here which product one may come into contact with.

3B: Specific risks

(3B) Specifieke risico's/
extra voorzorgs-, beheersmaatregelen:
□ NVT
☐ Alertheid vanwege omgeving / Gelijktijdigheid

This describes the specific risks (if applicable) related to the environment and the simultaneity of the work and the specific additional measures (if applicable) that must be taken.

Examples of this are: preparing a water hose or stretching safety tape, but also if cooperation with production is required.

3C: Confined Space

(3C) Besloten ruimte (referentie VV 08)
□NVT
☐ Pre-job bespreking uitgevoerd ☐ Volledig ingevuld betredings fiche toegevoegd
Volledig lingevald betredings fiche toegevoegd
Naam mangatwacht:
Communicatieapparatuur :
GSM, WT,
Communicatieapparatuur :

This box tells more about the confined space (if applicable). Before entering a confined space, a prejob meeting must be carried out. The fully completed confined space sheet must therefore be attached.

Proces: VEILIGHEID EN GEZONDHEID BIz. 8 of 14

SAFETY INSTRUCTIONS VV00

required.



Doc. No: XP-452-W-0-00000

Document Versie: 14

Furthermore, the name of the manhole guard and the means of communication used are also

Work permit

Proces: VEILIGHEID EN GEZONDHEID Blz. 9 of 14



Document Versie: 14

3D: Measurement result

The measurement result in a confined space, ex zone, or other must be noted in box 3D

(3D) Meetresultaat	
Vrijgave resultaat: Zuurstof%	
Andere metingen	
Andere meungen	

3rd: Locking

(3E) Vergrendeling NVT Eenvoudige vergrendeling Geverifieerd dat vergrendeling goed is uitgevoerd en getest Lock out punt + Prod. Slot Nr.	Indiv. Sloten
1 +	
2 +	
3 +	
Complexe vergrendeling Individuele sloten gehangen op lockbox nr: Vergrendelformulier gezien en in orde bevonden	

This part deals with the locking. If not applicable, the issuer must only tick 'N/A'. In other cases, there is a choice between:

- Simple locking: if max. 3 lock-out points were used (locks, blind flanges, ...)
 - Test can be carried out by someone who communicates this to the provider.
 Tick when the lock has been tested for correctness. When the installation cannot be started!
 - o Describe where the installation is locked with the production lock number
 - o Indicate where an individual personal lock is required
- Complex locking: locking with more than 3 lock-out points. If this is indicated, the number of the lockbox must be entered
 - o Indicate that the lock form has been seen and approved.

A lock can be simple or complex, just fill in the box below.

3F: Deviating situations / exceptions

|--|

This box can be filled in when only locked by a personal lock.

Proces: VEILIGHEID EN GEZONDHEID Blz. 10 of 14



Document Versie: 14

Part 4: Ratification/Renewal/Termination

4A: Ratification (Contractor's agreement)

(4A) Uitvoerder is akkoord met de te treffen maatregelen en verstrekte informatie en houdt zich hieraan		
■ Werkvergunning in orde bevonden	Firma / Afdeling	
TI / TRA geraadpleegd en risico's zijn gekend		
☐ Is bekend met gebruik benodigde PBM's en benoemde extra PBM's en speciale afdelingsregels	Naam	
	Tel/gsm	
Zorgt er voor dat alle personen op de hoogte zijn van de risico's, en dat hun namen op het aanmeldingsblad staan	Handtekening CU	
☐ Zorgt dat de LMRA wordt uitgevoerd Aantal pers	sonen die op deze werkvergunning werken:	

The contractor signs part 4A of the work permit as soon as he has reasonably verified that the transfer measures have been carried out and correspond to the information provided.

He is responsible for the transfer of the measures to be taken to his employees.

The contractor ensures that the LMRA has been carried out.

The contractor indicates how many people he will carry out the work with.

This signature is required for the approval of the permit.

4B: Consent provider

(4B) Verstrekker geeft toestemming om onder eerder genoemde voorwaarden de werkzaamheden uit te voeren		
□Werkvergunning in orde be	vonden	
Naam		Handtekening
Datum/	Tel/gsm	

The intention is that the issuer checks prior to signing:

- whether the work permit is complete with regard to the identification of risks associated with the installations/workplace;
- the installation and workplace in the field are in accordance with the intended conditions.

For the purpose of this last point, shortly before the start of the work, preferably in the presence of the contractor, an on-site inspection is carried out by - or on behalf of (e.g. operator via walkie-talkie) - the provider. The provider also ensures that the contractor is assigned the exact workplace on site. Only if (1) the operator is sufficiently known on site with certainty or (2) there is a "low-risk workplace" (no locking applicable, no chance of possible contact with acids, gases or other hazardous substances, etc.), may the designation on site be waived.

Proces: VEILIGHEID EN GEZONDHEID BIz. 11 of 14

SAFETY INSTRUCTIONS VV00 Work permit Balen/Pelt

Doc. No: XP-452-W-0-00000

Document Versie: 14

If the provider has signed and the situation has been found to be in order, the contractor may start his work.

As long as the work lasts, the foreman keeps the colored copy page and the department the white frontpage.

4C: End of work (delivery by contractor)

(4C) Einde werkzaamheden, oplevering door uitvoerder
☐ Verklaart het werk naar behoren te hebben uitgevoerd
☐ De werkplek is opgeruimd en veilig achtergelaten
Persoonlijke sloten zijn verwijderd
Andere
Handtekening

After completion of the work, the coordinating supervisor will ensure that the workplace is cleaned up and left safe. He then reports to the provider to test (if necessary) whether the equipment is in safe and ready for use (check walking directions, leak tightness).

4D: End of work (issuing department)

(4I	D) Einde werkzaamheden ve Afronding geaccepteerd door	erstrekkende afdeling afdeling	
Ιп	Na brandgevaarlijk werk in midden en hoog risicozone: □ Locatie en omgeving gecontroleerd en veilig bevonden □ Bijkomende maatregelen:		
	aam	Handtekening	

After the work, the provider (if necessary together with the coordinating contractor) checks whether the location and the work have been delivered properly.

Both parties then sign off on the work permit for termination of work. If necessary, it can be agreed that the permit issuer will do the check and sign-off later and provide feedback on the results.

Comments

Opmerkingen:	
Blauw is ingevuld door (coördinerende) uitvoerder (CU) / rood door verstrekker / zwart wordt in samenspraak ingevuld door opdrachtgever	n verstrekker

If you have any comments, you can always leave them in the place provided for this purpose at the bottom of the permit.

8 CONTINUATION

If the work takes longer than 1 day's work, a continuation of the permit can be applied for. The originator fills in the blue part and goes over the various points of the condition for continuation

Proces: VEILIGHEID EN GEZONDHEID Blz. 12 of 14

SAFETY INSTRUCTIONS VV00

Work permit



together with the provider. They both tick that they have determined that the 4 conditions are met. They are marked at the bottom of the table.

If no fire-hazardous work has to be carried out in a high-risk zone or if there is no entry into a confined space or no release measurement due to explosion risk or other hazardous atmosphere to report, they will delete this or these item(s). If this is the case, the manhole guard or the fire marshal or the person who does the release measurement will sign off the form after having made the necessary findings.

This form (XW-452-WVG-0-00001) is attached to the original work permit of the contractor.

The employees who carry out the work report to the control room via the attendance registration with the number of the work permit.

After the day's work, this form is handed over to the operator of the control room.

After the work has been completed, part 4C of the work permit is completed and all documents associated with the work permit (TRA, entry sheet, lock sheet, etc.) are sent to the control room operator.

Continuation therefore means that all the checks necessary to release a work permit must be carried out. Drawing up a new work permit is usually recommended.

9 OBLIGATION TO REGISTER IN PRODUCTION DEPARTMENTS

Anyone who is a stranger to a department must register at the department.

- In the event that work is to be carried out on or in the installation and/or if one is going to enter a confined space, a work permit must be issued as described in this procedure.
- If you only visit the department for, for example, a safety tour, giving or receiving explanations, (exclusively) reading meters, then you do not need a work permit. In that case, when registering with the operator on duty, you should inquire about special risks.

In both cases, the attendance registration of the department must be completed.

Visitors tick the box of visit, performers note the number of the work permit. At the start, the date, name, company, place and start time are noted.

When you leave the department, you note the departure time and an initial.

Employees who are permanently attached to a department are not registered. This concerns the operators and staff of the production department in question.

Proces: VEILIGHEID EN GEZONDHEID Blz. 13 of 14

Doc. No: XP-452-W-0-00000
Document Versie: 14

SAFETY INSTRUCTIONS VV00

Work permit



10 SHIFT TRANSFER

If a work takes longer than the current shift, a transfer of the task to the next shift is required. The emerging shift must be informed of the current work permits, the status of the tasks and the status of the installation. This transfer must be discussed at the board where the work permits are posted.

11 INTERRUPTION OF WORK

A work can be interrupted for the following reasons:

- In case of evacuation
- For operational reasons
- Change of the scope of work
- · Because of the simultaneity of several jobs in the same place

If a work is interrupted, the contractor will have to return their work permit, the department notifies the originator who supervises the interruption.

The status of the works and the consequences for other activities will have to be noted on the current work permit.

After an interruption, work may only be resumed if the provider gives permission for this, or a new work permit has been made.

12 ARCHIVING

Work permits and their underlying documents must be stored in the issuing department for at least 30 days.

Proces: VEILIGHEID EN GEZONDHEID Blz. 14 of 14